

**FINAL
POST-CONSTRUCTION SUMMARY REPORT
BUILDING 66 REMEDIAL EXCAVATION
NAVAL STATION TREASURE ISLAND PETROLEUM REMEDIAL EXCAVATION PROGRAM
YERBA BUENA ISLAND
SAN FRANCISCO, CALIFORNIA**

**Environmental Remedial Action
Contract Number N62474-98-D-2076
Contract Task Order 0036**

**Document Control Number 5001
Revision 0**

December 11, 2002

Submitted to:

U.S. Department of the Navy
Southwest Division
Naval Facilities Engineering Command
Environmental Division
1220 Pacific Highway
San Diego, California 92132-5190

Submitted by:

IT Corporation
4005 Port Chicago Highway
Concord, California 94520-1120

FINAL
POST-CONSTRUCTION SUMMARY REPORT
BUILDING 66 REMEDIAL EXCAVATION
NAVAL STATION TREASURE ISLAND PETROLEUM REMEDIAL EXCAVATION PROGRAM
YERBA BUENA ISLAND
SAN FRANCISCO, CALIFORNIA

Environmental Remedial Action
Contract Number N62474-98-D-2076
Contract Task Order 0036

Document Control Number 5001
Revision 0

December 11, 2002


Approved by:  _____ Date: 12/16/02
Douglas Nelson
IT Project Manager

Table of Contents

List of Figures	i
List of Tables	ii
List of Tables	ii
List of Photographs	ii
List of Appendices	iii
Acronyms and Abbreviations	iv
1.0 Introduction	1-1
1.1 Site Description and History	1-1
1.2 Yerba Buena Island Geology and Hydrogeology	1-2
1.3 Summary of Previous Site Investigations	1-2
1.4 Remediation Objective	1-3
2.0 Excavation and UST Abandonment Activities	2-1
2.1 Pre-Excavation Sampling	2-1
2.2 Site Preparation and Notifications	2-1
2.3 Remedial Excavations	2-2
2.4 UST Abandonment-in-Place	2-3
3.0 Sampling and Analysis	3-1
3.1 Pre-Excavation Sampling	3-1
3.2 Tank Contents/Rinsate Sampling	3-1
3.3 Excavation Confirmation Sampling	3-2
3.4 Soil Borings	3-3
3.5 Data Quality Assessment	3-3
4.0 Site Restoration	4-1
4.1 Excavation Backfilling	4-1
4.2 Surface Restoration	4-1
4.3 Final Inspection	4-1
5.0 Waste Handling and Disposal	5-1
5.1 Soil Handling, Sampling, Transport, and Disposal	5-1
5.2 Wastewater Handling, Sampling, and Discharge	5-1
6.0 Conclusions	6-1
7.0 References	7-1

List of Figures

Figure 1	Building 66 Site Location Map
Figure 2	Building 66 Site Map and Excavation Limits
Figure 3	Building 66 Excavation Limits and Analytical Results
Figure 4	Building 66 UST Cross Sections A - A' and B - B'
Figure 5	Building 66 UST Cross Section C - C'

List of Tables

Table 1	Interim Cleanup Goals for Petroleum Excavations at Building 66
Table 2	Building 66 Sample Descriptions and Sample Identifications
Table 3	Pre-Excavation Sample Analytical Results
Table 4	UST Contents—Fuel Fingerprint Analytical Results
Table 5	UST Rinsate Sample Analytical Results
Table 6	Post-Excavation and Confirmation Soil Sample Analytical Results
Table 7	Soil Boring Analytical Results
Table 8	Soil Stockpile Characterization Analytical Results
Table 9	Wastewater Characterization Analytical Results

List of Photographs

Photograph 1	View looking south of stained soil areas.
Photograph 2	View looking north toward catch basin.
Photograph 3	View looking north along west side of building.
Photograph 4	View of concrete drain along western side of building.
Photograph 5	Sandbags placed to absorb petroleum product on the southern side of Building 66.
Photograph 6	Location of former AST and natural gas manifold.
Photograph 7	View looking south into vault overlying the previously undocumented UST.
Photograph 8	View looking south at western stairway and catch basin.
Photograph 9	Excavation around wooden vault above discovered UST.
Photograph 10	Petroleum infiltrating the wooden vault excavation.
Photograph 11	West wall excavation.
Photograph 11a	View of west wall excavation, removed concrete sidewalk, and storm drain gutter.
Photograph 12	View of TPH removal area between the wooden stairway and catch basin at the northwest corner of Building 66.
Photograph 13	Excavation at the corner of Tower Park Playground.
Photograph 14	Excavation adjacent to Tower Park Playground and west of steam line support pole.
Photograph 15	UST location in relation to building and other infrastructure preventing UST removal.
Photograph 16	Removal of UST contents.
Photograph 17	Removal of UST contents.
Photograph 18	Filling UST with sand/cement slurry.
Photograph 19	Filling excavation above UST with sand/cement slurry.
Photograph 20	Filled excavation above UST.
Photograph 21	Drilling activities at northwest corner of building.
Photograph 22	Restored view of northwest corner of building.
Photograph 23	View looking south along the western wall of Building 66 showing the restored concrete sidewalk and storm gutter.

List of Photographs (continued)

- Photograph 24 View of restored area above the abandoned UST at the southwest corner of Building 66.
- Photograph 25 Looking east at the restored wooden stairway landing located at the northwest corner of Building 66.

List of Appendices

- Appendix A Excavation Authorization Permit
- Appendix B Laboratory Analytical Reports and Chain-of-Custody Records
- Appendix C UST Abandonment Documentation
- Appendix D Soil Boring Logs
- Appendix E Data Quality Assessment
- Appendix F Final Inspection Report
- Appendix G Non-RCRA Hazardous Waste Manifests (Non-Regulated Petroleum-Contaminated Soil)
- Appendix H Request for Wastewater Discharge Permit
- Appendix I Non-RCRA Hazardous Waste Manifest and Bill of Lading (Oily Water)

Acronyms and Abbreviations

APCL	Applied Physics and Chemistry Laboratory
AST	aboveground storage tank
BERM	Bureau of Environmental Regulation and Management
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
cy	cubic yard
FSP	Field Sampling Plan
HMUPA	Hazardous Materials Unified Program Agency
IT	IT Corporation
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
Navy	U.S. Department of the Navy
PAH	polycyclic aromatic hydrocarbon
PID	photoionization detector
RCRA	Resource Conservation and Recovery Act
RWQCB	Regional Water Quality Control Board
SF-DPH	San Francisco Department of Public Health
SFPUC	San Francisco Public Utilities Commission
TI	Treasure Island
TPH	total petroleum hydrocarbon
TtEMI	Tetra Tech EM, Inc.
UST	underground storage tank
VOC	volatile organic compound

1.0 Introduction

This Post-Construction Summary Report documents soil remediation and underground storage tank (UST) closure activities conducted by IT Corporation (IT) at Building 66, Naval Station Treasure Island (TI) from August 9, 2001, to October 1, 2001.

Building 66 remedial activities were performed under IT Environmental Remedial Action Contract Number N62474-98-D-2076, Contract Task Order 0036, administered by the U.S. Navy Southwest Division, Naval Facilities Engineering Command. Work was performed in accordance with the *Final Supplemental Project Plans, Building 66 Remedial Excavation, Naval Station Treasure Island Petroleum Remedial Excavation Program, Treasure Island and Yerba Buena Island, San Francisco, California* (IT, 2001a).

1.1 Site Description and History

Building 66 is located on Yerba Buena Island in San Francisco Bay, midway between San Francisco and Oakland, California. [Figure 1, “Building 66 Site Location Map,”](#) shows the location of Building 66. [Figure 2, “Building 66 Site Map and Excavation Limits,”](#) shows the relevant site features. The building currently houses offices for the John Stewart Property Management Company. A boiler room in the southwestern corner of the building currently supplies steam to Building 66 and Building 60. Tower Park Playground lies adjacent to Building 66 to the west. The terrain surrounding Building 66 is steep, and vegetation immediately surrounding the building consists mainly of ivy interspersed with grass and weeds.

Concrete saddles that supported a former 1,200-gallon aboveground storage tank (AST) and a concrete boiler blowdown sump are located immediately adjacent to the southern side of the building. Fuel stored in the AST was used for the adjacent heating boiler in Building 66 and was likely “black oil,” an intermediate grade fuel oil used by the U.S. Department of the Navy (Navy). At the time of publication of the Final Supplemental Project Plans (IT, 2001a), a 27 by 40-inch wooden vault was observed immediately adjacent to the concrete blowdown sump. This vault contained standing water and was speculated to house a valve box or pump connecting two steel pipes (1.5 and 2 inches). As discussed in [Section 2.3, “Remedial Excavations,”](#) this structure was later found to contain piping associated with a previously undocumented UST located at the southwestern corner of the building. This UST was discovered by site workers who were excavating by hand to facilitate removal of the wooden vault and surrounding total petroleum hydrocarbon (TPH)-impacted soils at the southwest corner of Building 66. The previously unknown 2,000-gallon diesel UST is now considered to be the likely source of the

petroleum hydrocarbon contamination noted in the shallow soils along the western and northwestern portions of the site. Since the tank was undocumented, its precise historical use is unknown; however, the tank's location (adjacent to the former 1,200-gallon AST) suggests that it supplied fuel to the Building 66 boiler room prior to the AST's installation.

A 1960 Navy drawing detailing the installation of new steam and return lines shows a fuel UST and associated piping along the northwestern side of Building 66; however, no evidence of a UST on the northwestern side of the building was observed.

Fuel line F01, a 3-inch line, was used to transport fuel from the former 37,500-gallon UST 111 across Yerba Buena Road to the Building 66 boiler room (Figure 2). Operation of the fuel line ceased in 1992. In 1997, portions of the F01 line were either excavated or abandoned in-place; the pipeline adjacent to Building 66 was removed (Tetra Tech EM, Inc. [TtEMI], 1997).

1.2 Yerba Buena Island Geology and Hydrogeology

Yerba Buena Island is a natural island consisting of the following geologic units, listed from youngest (shallowest) to oldest (deepest): 1) landslide debris and fill; 2) colluvium; and 3) Franciscan Assemblage. The Franciscan Assemblage bedrock is relatively impervious and generally serves as a boundary to groundwater flow (TtEMI, 2002). No groundwater monitoring wells are present at or within the vicinity of Building 66 nor was groundwater encountered during petroleum remedial activities at the site.

1.3 Summary of Previous Site Investigations

Lead abatement of the interior and exterior surfaces of Building 66 was completed prior to performing petroleum-related excavation activities at the building. Perimeter soil lead abatement was conducted by the Superintendent of Shipbuilding, Portsmouth, Virginia–Vallejo Detachment in 1999. An additional lead-contaminated soil excavation was performed by IT on the northern side of Building 66 in September 2001, subsequent to completing the petroleum remedial activities presented in this report. Approximately 124 tons of lead-contaminated soil was removed from the slope on the north side of Building 66 and disposed of off site. Analytical results for confirmation soil samples collected from the excavated area indicated concentrations of lead in the soil remaining on site ranged from 7 to 160 milligrams per kilogram (mg/kg). Since all results were below the action level of 400 mg/kg established for the project, no further excavation was conducted.

During lead-soil characterization sampling in March 2001, IT observed evidence of petroleum around the perimeter of Building 66. Soil staining and a strong petroleum odor were noted on

both the northwestern corner and western side of the building ([Photographs 1, 2, and 3](#)). A visible petroleum sheen was also found on standing water on the concrete sidewalk adjacent to the building (on the southern and western side) ([Photograph 4](#)).

Further information regarding the petroleum product present on site was obtained from the on-site property management company and from prior sampling and analysis results. During a March 2001 boiler “blowdown,” a boiler room discharge pipe emitted pressurized, boiling water onto the soil on the southern side of Building 66. Free-petroleum product percolated from the ground surface at the point of boiler water discharge. Sandbags and absorbent pads were used to absorb standing petroleum product adjacent to the building ([Photograph 5](#)). At the time of publication of the Final Supplemental Project Plans ([IT, 2001a](#)), the source of the petroleum product at Building 66 was unknown, and the product was speculated to have originated from the former AST, associated piping, and wooden vault ([Photographs 6 and 7](#)).

Analytical results for two F01 pipeline removal confirmation and investigation soil samples collected in 1997 and 2000, respectively, in the immediate vicinity of the AST and wooden vault (later identified as UST-related infrastructure) also confirmed the presence of fuel hydrocarbons in soil at the site. TPH quantified as motor oil was detected in both soil samples at a concentration of 2,000 mg/kg from 1 to 1.5 feet below ground surface (bgs). The soil sample collected in April 2000 also contained TPH as diesel at a concentration of 1,100 mg/kg. Sample locations are shown on [Figure 3, “Building 66 Excavation Limits and Analytical Results.”](#)

1.4 Remediation Objective

The objective of the Building 66 remedial excavation was the removal of petroleum hydrocarbon-impacted soil in accordance with interim cleanup goals as presented in the Final Supplemental Project Plans ([IT, 2001a](#)). Cleanup goals for the remedial excavation are presented in [Table 1, “Interim Cleanup Goals for Petroleum Excavations at Building 66.”](#) Cleanup goals protective of residential human health were applied to the Building 66 soil excavations. The Final Supplemental Project Plans also provided for removal of any petroleum-soaked structures or other potential sources of contamination encountered at the site. The 27 by 40-inch wooden vault box located adjacent to the concrete blowdown sump near the southwest corner of Building 66 was visible at the outset of the project and was specifically targeted for removal. This appurtenance showed obvious petroleum staining. In addition, two steel pipes (1.5 and 2 inches) were observed within the wooden vault and were targeted for removal, along with any additional pipelines encountered.

A previously undocumented UST was encountered during project execution. This UST was abandoned in-place to remove it as a potential source of contamination at the site.

2.0 Excavation and UST Abandonment Activities

Petroleum-contaminated soil was excavated from five areas shown in [Figure 2](#). The initial boundaries of the excavations were developed based on observations of stained surface soil and the pre-excavation samples described in [Section 2.1, “Pre-Excavation Sampling.”](#) Each excavation was started in the vicinity of the most visibly stained soil. The initial vertical and lateral extent of excavation was guided by observed staining, odors, and photoionization detector (PID) readings. Confirmatory soil samples were collected from each completed excavation area. All pre-excavation and confirmation samples were collected and analyzed as specified in the [Field Sampling Plan \(FSP\)](#) submitted as part of the [Final Supplemental Project Plans \(IT, 2001a\)](#).

2.1 Pre-Excavation Sampling

Prior to initiating excavation activities at Building 66, shallow soil samples (Sample Numbers 36-66-001 through 36-66-003, 36-66-005, and 36-66-006) were collected from 0.5 to 1.0 feet bgs. One field duplicate sample, 36-66-007 (duplicate of sample 36-66-006), was also collected. These samples were collected on August 9, 2001, from areas around the building identified for soil removal based on nuisance TPH criteria (see [Table 1](#)). These samples were collected from areas adjacent to the southwest building corner, the west wall, and the northwest building corner. Sample locations are shown on [Figure 3](#). Five of the six pre-excavation soil samples collected exceeded interim cleanup goals for TPH as diesel ([Table 1](#)). [Table 2, “Building 66 Sample Descriptions and Sample Identifications,”](#) lists all samples, including pre-excavation samples, collected during Building 66 petroleum remediation activities. Pre-excavation characterization sample results are provided in [Table 3, “Pre-Excavation Sample Analytical Results.”](#) Additional sampling and analysis details are presented in [Section 3.1, “Pre-Excavation Sampling.”](#)

A paint chip sample (Sample Number 36-66-004) was collected from the wooden stairway at the northwestern corner of the building ([Photograph 8](#)) and analyzed for lead, for waste characterization and disposal purposes (in the event that the stairway needed to be removed to facilitate underlying soil excavation). Details are presented in [Section 3.1](#).

2.2 Site Preparation and Notifications

Prior to mobilizing on site, IT obtained an excavation work authorization permit from the San Francisco Public Utilities Commission (SFPUC) Utilities Manager for TI. A copy of the permit is included in [Appendix A, “Excavation Authorization Permit.”](#) Underground Service Alert was notified prior to beginning excavation activities so that utility companies could locate and mark

their underground utilities at the site. The locations of underground utilities in the vicinity of the excavation areas were confirmed by an independent geophysical survey prior to starting excavation activities. Utility locations are shown on [Figure 2](#). The current occupant of Building 66, John Stewart Construction Management Company, was also notified verbally prior to initiating petroleum excavation work at Building 66.

2.3 Remedial Excavations

Soil at the southwest corner of Building 66 was excavated by hand digging to a depth of approximately 4.5 feet bgs to remove stained and odiferous TPH-contaminated soil (see [Figure 2](#)). As part of nuisance removal activities in this area, both a petroleum-soaked wooden retaining wall and wooden vault were also removed ([Photograph 9](#)). During initial excavation activities around the wooden vault, water was observed infiltrating the excavation from the adjacent concrete blowdown sump. The water was pumped out of the sump to prevent further infiltration into the wooden vault and contained in three 55-gallon drums for sampling and disposal (see [Section 5.2, “Wastewater Handling, Sampling, and Discharge,”](#) for additional details). As excavation activities progressed on August 13, 2001, to facilitate removal of the wooden vault, a petroleum product was observed infiltrating the bottom of the excavation ([Photograph 10](#)). Further investigation revealed a leaking metal structure underlying the wooden vault. The petroleum product was immediately controlled with absorbent pads, and an approximate 1/4-inch diameter hole in the metal structure was plugged and patched with quick-setting concrete. The metal structure was initially thought to be a large diameter pipe. Additional investigation subsequently revealed an undocumented UST located beneath the wooden vault.

After identifying the UST, the tank contents were measured with an oil/water interface probe and a product sample was collected. The interface probe indicated approximately 3.5 feet of floating product on top of 2 feet of water. Fuel fingerprinting analytical results are presented in [Appendix B, “Laboratory Analytical Reports and Chain-of-Custody Records,”](#) and are discussed in [Section 3.2, “Tank Contents/Rinsate Sampling.”](#) Soil excavation was continued in order to expose the top of the UST and aid in further evaluation of the disposition of the UST by the Navy and the Regional Water Quality Control Board (RWQCB). During this process, a small amount of additional product infiltrated the excavation and was collected with absorbent pads. Details pertaining to the final disposition of the UST and its contents are discussed in [Section 2.4, “UST Abandonment-in-Place.”](#)

Stained and odiferous TPH-contaminated soil along the western side of Building 66 was excavated by hand digging to a depth of approximately 2 feet bgs ([Photograph 11](#)) (see

[Figure 2](#)). A previously damaged sidewalk and storm drain gutter were also removed from this excavation area ([Photograph 11a](#)). The damaged sidewalk was removed to facilitate restoration of the storm drain gutter along the west side of the building. Upon completion of excavation, the sidewalk and gutter were replaced from the end of the retaining wall to the northwest corner of the building (see [Section 4.2, “Surface Restoration”](#)).

Nuisance stained and odiferous TPH-contaminated soil along the northwest corner of Building 66 was excavated by hand digging to depths ranging from approximately 0.5 to 2 feet bgs (see [Figure 2](#)). The excavation limits include three adjoining areas, which were excavated to different depths according to field observations:

- Soil was excavated to approximately 0.5 feet bgs between the wooden stairway and the catch basin ([Photograph 12](#)).
- Soil was excavated to approximately 1 foot bgs at the northeast corner of the Tower Park Playground ([Photograph 13](#)).
- Soil surrounding the steam line support pole was excavated to approximately 2 feet bgs ([Photograph 14](#)).

Excavation and subsequent soil sampling results around the wooden stairway confirmed that soil underneath the downslope portion of the stairway was unaffected by petroleum contamination and did not require removal.

A total of approximately 13 cubic yards (cy) (17 tons) of soil were removed by hand digging from the Building 66 remedial soil excavations.

2.4 UST Abandonment-in-Place

Immediately following the discovery of the UST at the southwest corner of Building 66, the Navy and RWQCB were notified and an on-site evaluation of the tank was performed. The UST was determined to be an approximately 2,000-gallon, single-walled, 5.5-foot diameter by 15-foot long steel tank. A “UST Unauthorized Release (Leak)/Contamination Site Report” was submitted to the San Francisco Department of Public Health on August 16, 2001 (see [Appendix C, “UST Abandonment Documentation”](#)).

After conducting a field inspection, the Navy decided to abandon the UST in-place rather than remove it, due to the following:

- The UST’s location beneath the concrete foundation of the former AST
- The tank’s proximity to a 3-inch natural gas line serving the building’s boiler room

- The steep slope of the hillside above the UST

Since removal of the UST would require demolition and reconstruction of the existing infrastructure, and significant regrading and slope stabilization (including shoring the adjacent building), the Navy considered tank removal to be cost prohibitive. Both [Photograph 15](#) and [Figure 4, “Building 66 UST Cross Sections A - A' and B - B',”](#) illustrate these site conditions. UST abandonment activities were performed in accordance with [Appendix A, “Fuel Storage Tank Removal and Closure Plan,”](#) of the *Final Work Plan, Naval Station Treasure Island Petroleum Remedial Excavation Program, Treasure Island and Yerba Buena Island, San Francisco, California* (IT, 2001b). The chronology of the abandonment process was as follows:

- **August 23, 2001:** The contents of the UST were removed by vacuum truck and transported off site for disposal ([Photographs 16](#) and [17](#)). The UST was triple-rinsed using a pressure washer, and the rinsate was also collected by the vacuum truck for disposal. The field crew performing the pressure washing reported seeing several holes up to 1/4-inch in diameter in the sides and bottom of the tank. One sample of the final rinsate was collected to document the effectiveness of the procedure (see [Section 3.2](#)).
- **August 28, 2001:** An application for the UST abandonment-in-place was submitted to Mr. Lester Lum of the City and County of San Francisco Department of Public Health (SF-DPH) Hazardous Materials Unified Program Agency (HMUPA).
- **September 5, 2001:** Conditional approval of the application to abandon the UST in-place (pending submittal of additional information) was granted by Ms. Sue Cone of the SF-DPH Environmental Health Management Section.
- **September 14, 2001:** In response to a request for additional information, a letter of request to abandon the UST in-place was submitted by IT to Mr. Jin Tang of the SF-DPH-HMUPA. The letter provided details on UST discovery, product removal, and tank cleaning procedures, and presented the Navy’s request for an abandonment-in-place due to access limitations. The letter included drawings showing the site configuration and existing infrastructure. The letter also included a proposal to drill three soil borings using limited-access equipment. The borings were proposed to characterize subsurface conditions in the vicinity of the UST and along the western perimeter of Building 66.
- **October 1, 2001 (Approval Date):** A UST/Closure Modification Inspection Record was issued by Mr. Jin Tang of the SF-DPH-HMUPA. Copies of the permit applications, approvals, and relevant correspondence are included in [Appendix C](#).

On October 1, 2001, under the observation of the City Inspector (Mr. Jin Tang), the UST and excavation were filled with 13 cy of a sand/cement slurry. Approximately 10 cy of slurry were

required to fill the UST; the remainder was used to backfill the overlying excavation area (Photographs 18, 19, and 20). The remaining void above the slurry was then backfilled with clean soil.

3.0 Sampling and Analysis

Soil, wastewater, and UST content samples collected during Building 66 remediation activities were analyzed by Applied Physics and Chemistry Laboratory (APCL) of Chino, California. APCL is a California Department of Toxic Substances Control-certified analytical laboratory. Analytical laboratory reports and chain-of-custody records are included in [Appendix B](#). Detailed soil and wastewater handling and disposal information is presented in [Section 5.0, “Waste Handling and Disposal.”](#)

3.1 Pre-Excavation Sampling

Six pre-excavation soil samples (Sample Numbers 36-66-001 through 36-66-003 and 36-66-005 through 36-66-007) were collected from shallow soil (1 foot bgs) at five locations around Building 66 as shown on [Figure 3](#). All samples were analyzed for TPH as diesel and TPH as motor oil in accordance with the [Building 66 FSP \(IT, 2001a\)](#). Two soil samples (Sample Numbers 36-66-003 and 36-66-005) were analyzed for lead. A paint chip sample (Sample Number 36-66-004) was also collected from the wooden stairway on the northwestern corner of the building and analyzed for lead.

[Table 3](#) presents all soil pre-excavation sample results. TPH as diesel was reported at concentrations ranging from 380 to 7,700 mg/kg in the six soil samples. TPH as motor oil was reported at concentrations ranging from 150 to 1,900 mg/kg. All TPH as motor oil concentrations were below interim cleanup goals for the site; however, five of the six pre-excavation soil samples that were collected exceeded interim cleanup goals for TPH as diesel ([Table 1](#)).

Lead concentrations in the two soil samples were reported below interim cleanup goals. The paint chip sample collected from the wooden stairway (Sample Number 36-66-004) contained 31.6 mg/kg of lead ([Table 3](#)).

3.2 Tank Contents/Rinsate Sampling

Upon discovery of the UST, Sample Number 36-66-014 was collected from the tank contents and was submitted for fuel fingerprinting by gas chromatograph with flame ionization detector. The sample chromatogram was then compared to diesel #2, kerosene, and motor oil standard chromatograms. After evaluation of the chromatograms and quantitative analytical results for TPH in gasoline, diesel, jet fuel, and motor-oil ranges, it was concluded that the product matched

the standard for diesel. The fingerprint chromatograms are presented in [Appendix B, Table 4, “UST Contents—Fuel Fingerprint Analytical Results,”](#) provides quantitative analytical results.

As part of the UST abandonment process, the tank was triple-rinsed and the rinsate was collected by vacuum truck for transportation to an off-site recycling/disposal facility. The final rinsate was sampled (Sample Number 36-66-015) and analyzed for TPH as diesel and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Analytical results are presented in [Table 5, “UST Rinsate Sample Analytical Results.”](#) The sample contained 4.91 milligrams per liter (mg/L) of TPH as diesel, 0.0005 mg/L of benzene, 0.0026 mg/L of toluene, 0.003 mg/L of ethylbenzene, and 0.014 mg/L of total xylenes.

3.3 Excavation Confirmation Sampling

After excavation of shallow TPH-contaminated soil (i.e., excavation guided by visual observations, PID readings, and odor), confirmation samples were collected at five locations. Confirmation samples were analyzed for TPH as diesel, TPH as motor oil, and lead (Sample Numbers 36-66-009 through 36-66-013) in accordance with the [Building 66 FSP \(IT, 2001a\)](#). Analytical results are presented in [Table 6, “Post-Excavation/Confirmation Soil Sample Analytical Results,”](#) and [Figure 3](#). One confirmation soil sample (Sample Number 36-66-010), with a TPH as diesel concentration of 780 mg/kg was analyzed for polycyclic aromatic hydrocarbons (PAHs). Analytical results for all but one sample, Sample Number 36-66-013, reported TPH as diesel and TPH as motor oil concentrations below interim cleanup goals. The single TPH as diesel concentration reported above interim cleanup goals (an estimated, J-qualified result of 8,900 mg/kg) was collected at a depth of 2 feet bgs from the west side of the building ([Figure 3](#)).

The [Supplemental Field Sampling Plan](#), Building 66 Remedial Excavation specified that the confirmation sample with the highest TPH as diesel value would be analyzed for PAHs ([IT, 2001a](#)). Although sample 36-66-013 contained the highest TPH as diesel concentration of all post-excavation samples, the results exceeded interim cleanup goals and additional soil removal was initially considered for the excavation where it was collected. Therefore, sample 36-66-013 was not selected for PAH analysis, even though ultimately the decision was made not to overexcavate at that sample location. The confirmation sample with the next highest TPH as diesel concentration (36-66-010) was sent for PAH analysis instead.

Lead analytical results for all soil samples and the one PAH analytical result, reported as a benzo(a)pyrene equivalency concentration, were reported below interim cleanup goals ([Table 1](#)).

3.4 Soil Borings

Three soil borings were attempted along the western side of Building 66 to characterize petroleum soil contamination adjacent to the building. Soil boring 36-66-SB1 was advanced to 9.5 feet bgs (terminated due to bedrock refusal); samples were collected from the 7.0- to 7.5-foot bgs depth interval (Sample Number 36-66-017) and the 9.0- to 9.5-foot bgs depth interval (Sample Number 36-66-018). Soil boring 36-66-SB2 was advanced to 10.0 feet bgs (terminated due to bedrock refusal); samples were collected from the 7.0- to 7.5-foot bgs depth interval (Sample Number 36-66-019) and the 9.5- to 10.0-foot bgs depth interval (Sample Numbers 36-66-020 and 36-66-021 [duplicate]). The sample depths were selected to target two discrete sample intervals: (1) immediately below the projected depth of the bottom of the UST that was discovered at the southwest corner of Building 66; and (2) immediately above the bedrock surface. Soil samples were analyzed for TPH as diesel, TPH as motor oil, and volatile organic compounds (VOCs) as presented in [Table 7, “Soil Boring Analytical Results,”](#) and [Figure 3](#). All sample results were reported below interim cleanup goals ([Table 1](#)). No VOCs were detected in any of the samples. Soil boring logs for borings 36-66-SB1 and 36-66-SB2 are presented in [Appendix D, “Soil Boring Logs.”](#) Drilling activities are shown in [Photograph 21](#).

A third soil boring was attempted immediately adjacent to the UST through the concrete sidewalk. However, the field crew encountered refusal, and the boring was terminated at 31 inches bgs due to rocky conditions. The location of the attempted soil boring is shown on [Figure 3](#).

[Figure 5, “Building 66 UST Cross Section C - C’,”](#) depicts the subsurface conditions beneath Building 66 based on the three soil borings and observations made during excavation activities. The closed-in-place UST appears to have been installed in a shallow depression in bedrock, as evidenced by exposures of fractured bedrock in the tank excavation sidewalls (when the top of the tank was exposed by hand digging) and the bedrock refusal encountered at approximately 31 inches in soil boring SB3. Although a limited amount of TPH-contaminated soil was left in-place in the immediate vicinity of the UST, and along the western side of Building 66 (8,900 mg/kg [J-qualified] TPH as diesel at 2.0 feet bgs; sample 36-66-013), analytical results for soil samples representing deeper soils from soil borings SB1 and SB2 indicated only low to nondetectable concentrations of TPH as diesel.

3.5 Data Quality Assessment

The analytical data were validated by Laboratory Data Consultants, Inc., located in Carlsbad, California. Only confirmation soil samples were validated. Six screening soil samples that

exceeded the cleanup criterion and represent removed soil, as well as waste characterization samples, were not sent for data validation. The findings of the data validation process are presented in [Appendix E, “Data Quality Assessment.”](#)

Based on the validation findings, the majority of the quality control data were found to be indicative of acceptable analytical method performance. The anomalies noted in [Appendix D](#) did not invalidate the data for its intended use. All of the analytical data are valid and usable for project decisions.

4.0 Site Restoration

The following sections describe the backfilling and site restoration activities performed following the removal of petroleum-contaminated soil and structures (i.e., retaining wall and wooden vault) and the UST abandonment-in-place activities at Building 66.

4.1 Excavation Backfilling

Excavations at the northwest corner of Building 66 were backfilled after the confirmation soil sample analyses indicated attainment of the cleanup goals ([Photograph 22](#) and [Figure 3](#)). The excavation adjacent to the retaining wall on the western side of the building was backfilled after 2 feet of soil was excavated. Although this location was only excavated to 2 feet bgs in accordance with nuisance criteria ([Table 1](#)), contaminated soil above residential criteria remains in-place at depths exceeding 2 feet bgs. (Sample Number 36-66-013, [Figure 3](#)). Equipment access limitations, combined with the proximity of the building, prohibited further soil excavation. The southwestern excavation above the UST was backfilled with 3 cy of 4-sack cement slurry, which was pumped into place ([Photograph 19](#)).

4.2 Surface Restoration

Both the 65 square feet of 3-inch concrete sidewalk and the 25-foot long gutter were replaced along the west wall of Building 66 ([Photograph 23](#)). All other excavation areas previously covered with soil were returned to pre-excavation conditions, including the area overlying the UST ([Photograph 24](#)) and the northwest corner excavation area. The stairway landing at the northwest corner of the building was restored to its original condition ([Photograph 25](#)).

4.3 Final Inspection

The Navy Resident Officer in Charge of Construction performed a final inspection of Building 66 on October 15, 2001. No construction deficiencies were identified, and the project was accepted as complete. A copy of the final inspection report is included in [Appendix F, “Final Inspection Report.”](#)

5.0 Waste Handling and Disposal

Wastes generated from the Building 66 excavations included contaminated soil, petroleum-saturated structures (the wooden retaining wall and vault), the liquid contents of the UST, water from the tank excavation, and personal protective equipment.

5.1 Soil Handling, Sampling, Transport, and Disposal

Waste characterization samples were collected from the excavated soil at the frequencies described in the [Building 66 FSP \(IT, 2001a\)](#). Approximately 17 tons of soil was removed from the Building 66 excavation areas and transported from the site to a stockpile storage area pending characterization and disposition. Waste characterization analytical results from the soil stockpile are presented in [Table 8, “Soil Stockpile Characterization Analytical Results.”](#)

Disposal characterization sample results exceeded the soluble threshold limit concentration of 5 mg/L for lead, but were below the lead toxicity characteristic leaching procedure concentration of 5 mg/L. The soil was classified as a Cal-Haz (Non-Resource Conservation and Recovery Act [RCRA]) waste and was transported to and disposed of at Chemical Waste Management Inc.’s Class I landfill in Kettleman City, California. Class I soil disposal manifests are presented in [Appendix G, “Non-RCRA Hazardous Waste Manifests \(Non-Regulated Petroleum-Contaminated Soil\).”](#)

5.2 Wastewater Handling, Sampling, and Discharge

Standing water removed from the concrete blowdown sump was stored in three 55-gallon drums for waste disposition sampling. Sample Number 36-66-008 was collected from the drums and analyzed for chemical oxygen demand, cyanide, oil and grease, pH, phenolics, total suspended solids, dissolved sulfides, priority pollutant metals, TPH as gasoline, TPH as diesel, TPH as motor oil, and VOCs in accordance with the [Building 66 FSP \(IT, 2001a\)](#). [Table 9, “Wastewater Characterization Analytical Results,”](#) presents the wastewater sample analytical results.

A letter requesting permission to discharge liquid from the concrete blowdown sump to the TI sanitary sewer and a copy of the analytical results were provided to the SFPUC, Bureau of Environmental Regulation and Management (BERM). After BERM received and accepted the analytical results, the water was discharged into the TI sanitary drain system at a rate not exceeding 20 gallons per minute. A total of 165 gallons were discharged. [Appendix H, “Request for Wastewater Discharge Permit,”](#) provides a copy of the request for wastewater discharge permit letter and the analytical results.

Sample Number 36-66-014 was a UST content sample collected for fuel fingerprint analysis. As noted in [Section 3.2](#), the tank contents matched the standard for diesel fuel. Analytical results are presented in [Table 4](#); fingerprint chromatograms are presented in [Appendix B](#).

A UST final rinsate sample, Sample Number 36-66-015, was collected and analyzed for TPH as diesel and BTEX as discussed in [Section 3.2](#). The sample contained 4.91 mg/L of TPH as diesel, 0.0005 mg/L of benzene, 0.0026 mg/L of toluene, 0.003 mg/L of ethylbenzene, and 0.014 mg/L of total xylenes, which characterized the waste as a non-RCRA hazardous waste. UST contents (2,528 gallons) and rinsate water consisting of oily water, waste solids, and sludges were transported to Evergreen Oil, Inc. for disposal. [Table 5](#) and [Appendix B](#) contain analytical results; non-RCRA hazardous waste manifests are presented in [Appendix I](#), “Non-RCRA Hazardous Waste Manifest and Bill of Lading (Oily Water).”

6.0 Conclusions

Field observations and analytical results for soil samples collected from Building 66 indicate that remedial excavation activities were successful in removing nuisance TPH soil contamination and petroleum-soaked structures at the site. Remedial activities were also successful in identifying the source of on-site contamination, a previously undocumented leaking UST, and mitigating future petroleum releases from the source through UST closure via abandonment-in-place. As a result of the remedial activities at Building 66, there are no known remaining sources of petroleum at the site.

The method through which contamination was spread to the surface at Building 66 is suspected to be percolation of petroleum contamination up from the leaking UST during rain events and subsequent overflow of the product onto the ground surface via the open storm drain gutter. The petroleum contamination is suspected to have accumulated in surface depressions and damaged areas of the storm drain gutter. One confirmation soil sample (36-66-013), collected at a depth of 2.0 to 2.5 feet bgs from the bottom of the excavation on the west side of Building 66 (see [Figure 3](#)), contained an estimated (J-qualified) concentration of 8,900 mg/kg TPH as diesel, which exceeds the interim cleanup goal of 1,000 mg/kg for diesel. This small excavation (on the west side of Building 66) was conducted to remove obviously stained soils located within a damaged section of the storm drain gutter, where a breach in the concrete swale allowed water (and migrating petroleum hydrocarbons) to discharge from the gutter directly onto the exposed soil underneath. Although soil samples were not collected from beneath the abandoned UST or from the terminated soil boring located immediately adjacent to the UST, field observations of visible staining and odors, and PID readings in soil indicate TPH-contaminated soil likely to exceed interim cleanup goals is present in the vicinity of the UST.

Although some TPH-impacted soils remain in-place at the Building 66 site at concentrations exceeding the interim cleanup goals, based on the soil boring data ([Table 7](#)), these concentrations do not extend into deeper soils downgradient (downslope) of the recently discovered UST ([Figure 5](#)). Groundwater was not encountered in the soil borings, which were both terminated in bedrock (and could not be advanced further due to refusal) at depths of 9.5 to 10 feet bgs. Since closure-in-place of the previously unknown UST has removed the only potential ongoing source identified at the site, and the remaining TPH-impacted soils are limited in extent and do not appear to constitute a threat to groundwater, this site is recommended for No Further Action status.

7.0 References

IT Corporation, 2001a, *Final Supplemental Project Plans, Building 66 Remedial Excavation, Naval Station Treasure Island Petroleum Remedial Excavation Program, Treasure Island and Yerba Buena Island, San Francisco, California*, August.

IT Corporation, 2001b, *Final Project Plans, Naval Station Treasure Island Petroleum Remedial Excavation Program, Treasure Island and Yerba Buena Island, San Francisco, California*, August.

Regional Water Quality Control Board, 2001, *Comments on Draft Final Work Plans, Site 20, Naval Station Treasure Island, San Francisco, California*.

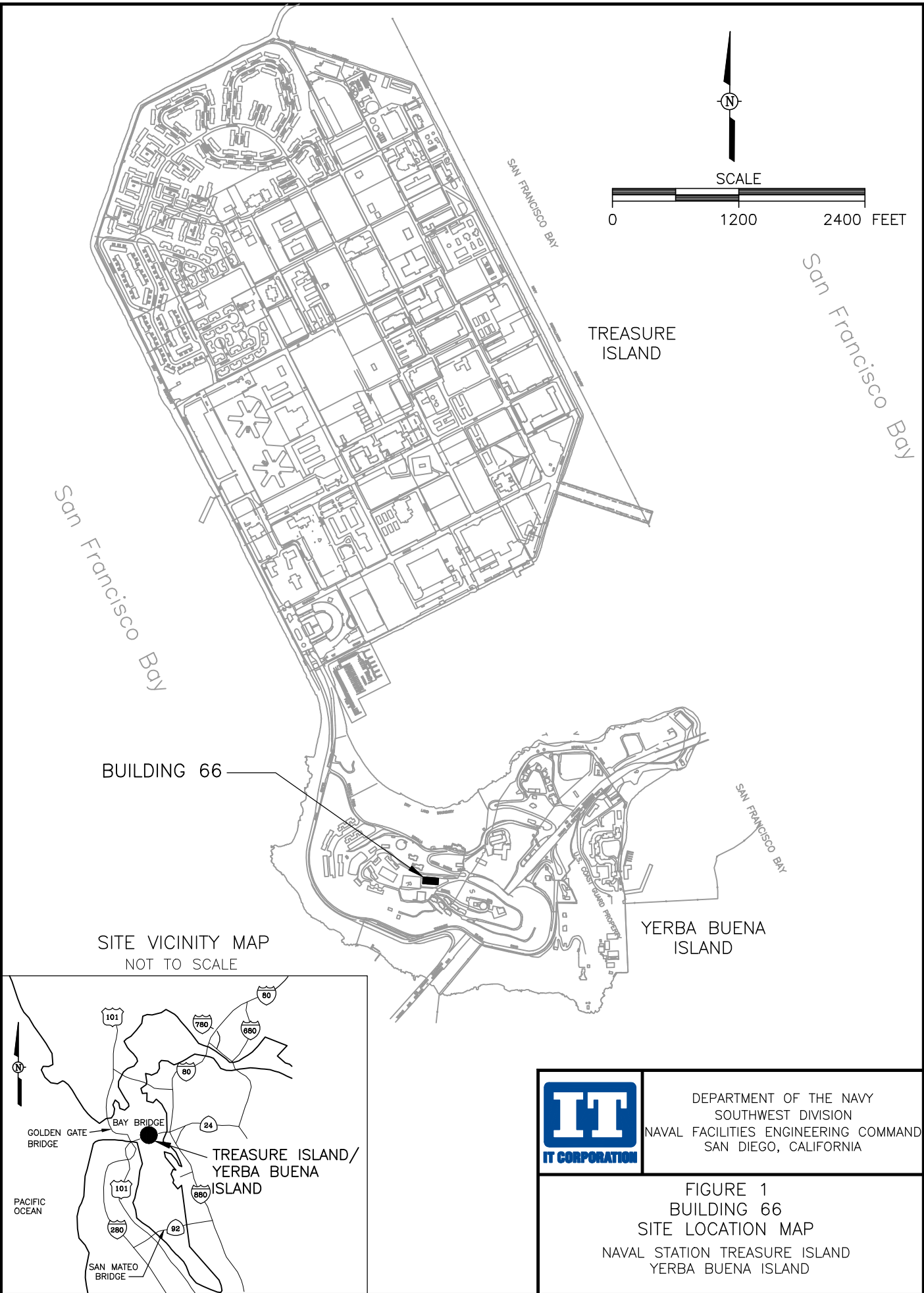
Tetra Tech EM, Inc., 1997, *Fuel Line Removal and Closed-in-Place Fuel Line Summary Assessment Report, Naval Station Treasure Island, San Francisco, California*.


Tetra Tech, EM, Inc., 2002, *Groundwater Status Report, Summary of Groundwater Monitoring, March through October 2000, Naval Station Treasure Island, San Francisco, California*.

U.S. Environmental Protection Agency, 1994, *Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities*, OSWER Directive 9355.4-12, Washington, D.C.

FIGURES

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	Concord	SCHAEFFER	SA	DN	819850-A3
			4/13/01	7/18/01	7/18/01	



	DEPARTMENT OF THE NAVY SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND SAN DIEGO, CALIFORNIA
	FIGURE 1 BUILDING 66 SITE LOCATION MAP NAVAL STATION TREASURE ISLAND YERBA BUENA ISLAND

DRAWING NUMBER 819850-B56

APPROVED BY 12/5/02 K. Leonard

CHECKED BY 12/5/02 S. Alford

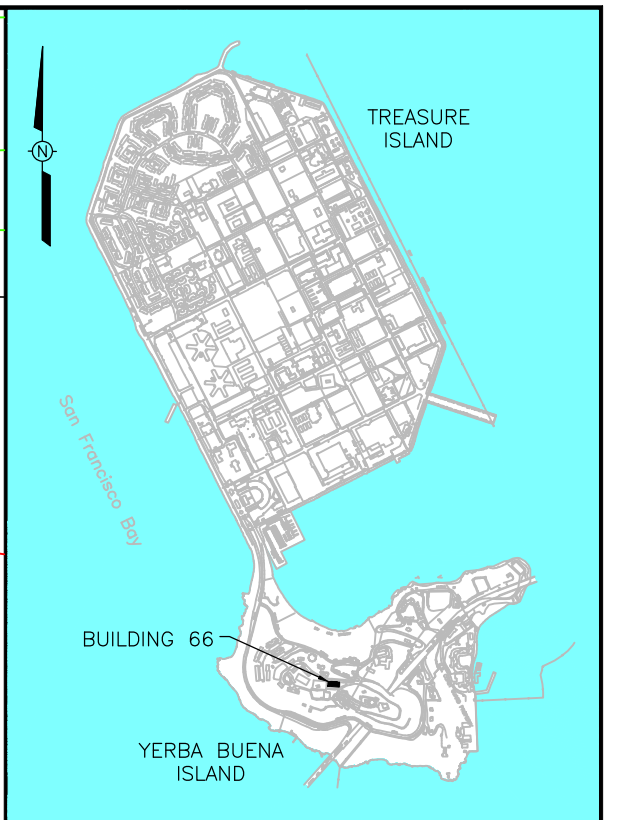
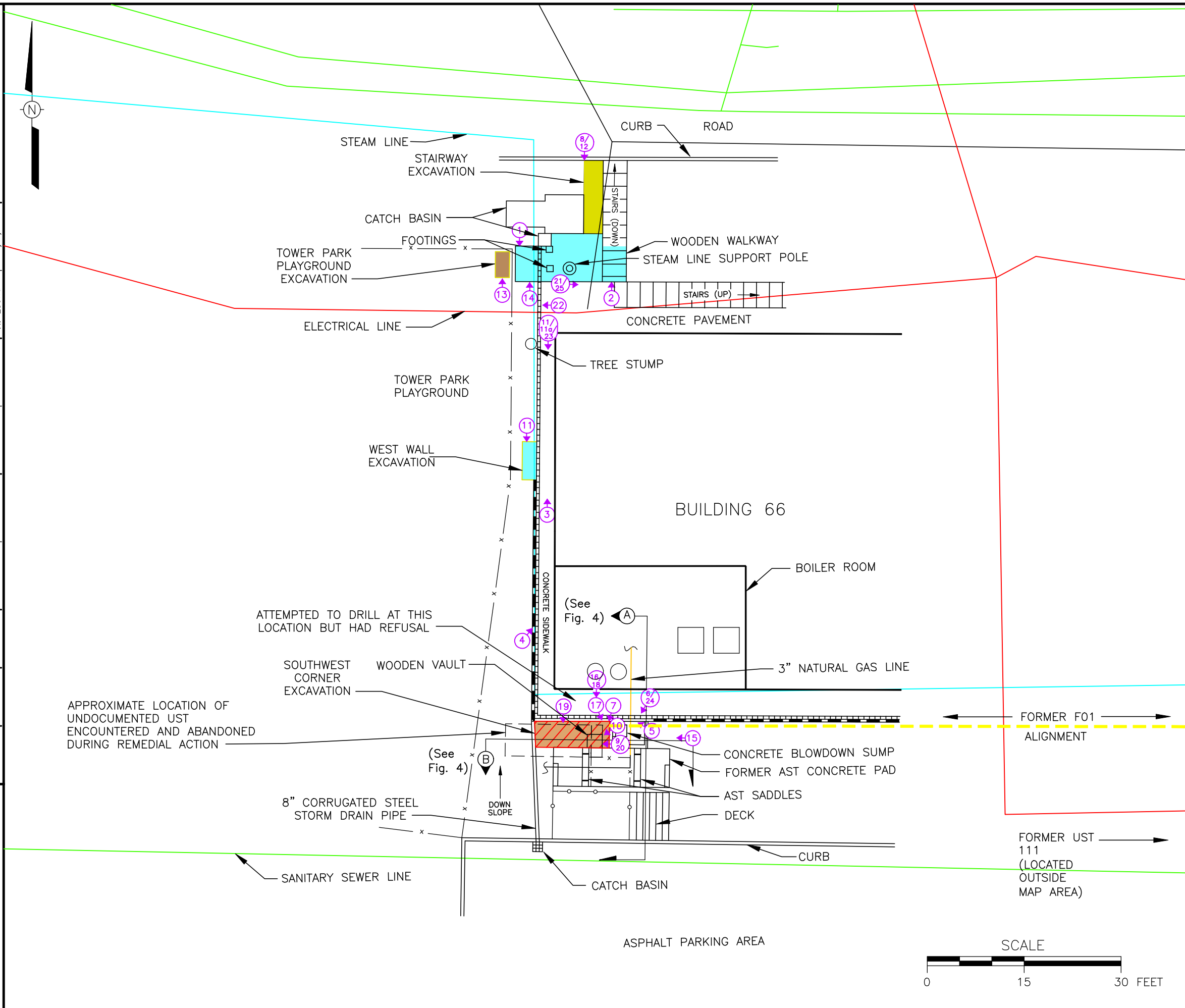
DRAWN BY 10/8/02 R. Bricker

OFFICE TI

X-REF ---

IMAGE ---

FORMAT REVISION 2/26/99



LEGEND:
PHOTOGRAPH LOCATION AND DIRECTION

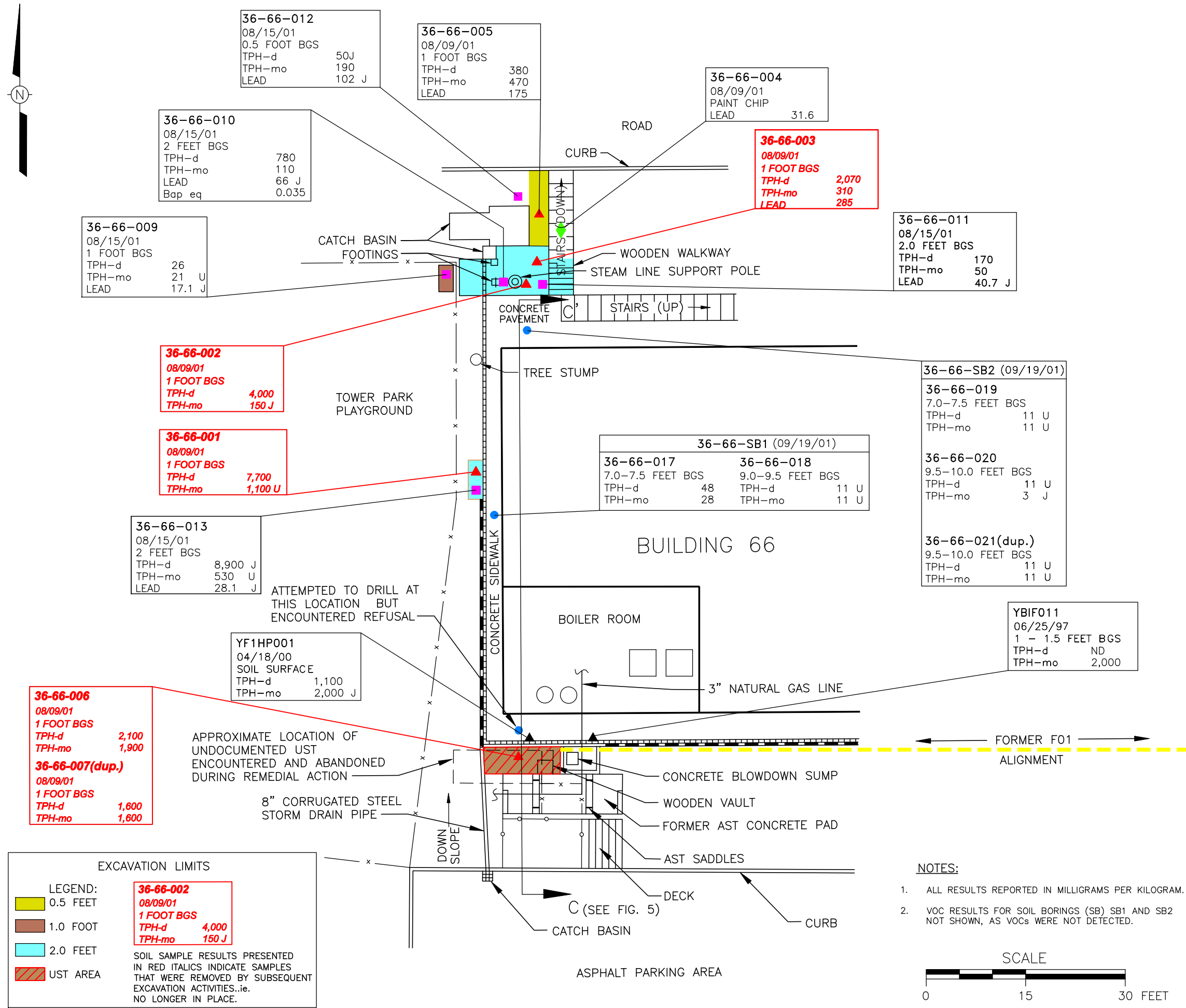
— x — CHAIN LINK FENCE
— o — WOOD FENCE
===== GUTTER
===== CONCRETE RETAINING WALL
— — — — — ELECTRICAL LINE
— — — — — SANITARY SEWER LINE
— — — — — NATURAL GAS LINE
- - - - - FORMER F01 PIPELINE (APPROXIMATE LOCATION)

EXCAVATION LIMITS AND DEPTHS
0.5 FEET
1.0 FOOT
2.0 FEET
UST AREA

IT CORPORATION

DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES
ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA

FIGURE 2
BUILDING 66 SITE MAP AND EXCAVATION LIMITS
YERBA BUENA ISLAND
SAN FRANCISCO, CALIFORNIA



TREASURE ISLAND

San Francisco Bay

BUILDING 66

YERBA BUENA ISLAND

LEGEND:

- PIPELINE INVESTIGATION SAMPLE
- PAINT CHIP SAMPLE LOCATION
- CONFIRMATION SAMPLE LOCATION
- PRE-EXCAVATION SAMPLE LOCATION
- SOIL BORING LOCATION
- CHAIN LINK FENCE
- WOOD FENCE
- GUTTER
- CONCRETE RETAINING WALL
- FORMER F01 ALIGNMENT
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- TPH-mo TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- BAPEq BENZO(a)PYRENE EQUIVALENT
- (dup) DUPLICATE SAMPLE
- U QUALIFIER INDICATES THAT THE ANALYTE WAS NOT DETECTED AT SPECIFIED DETECTION LIMIT
- J QUALIFIER INDICATES THAT THE ANALYTE WAS POSITIVELY IDENTIFIED BUT THE ASSOCIATED NUMERICAL VALUE IS ESTIMATED

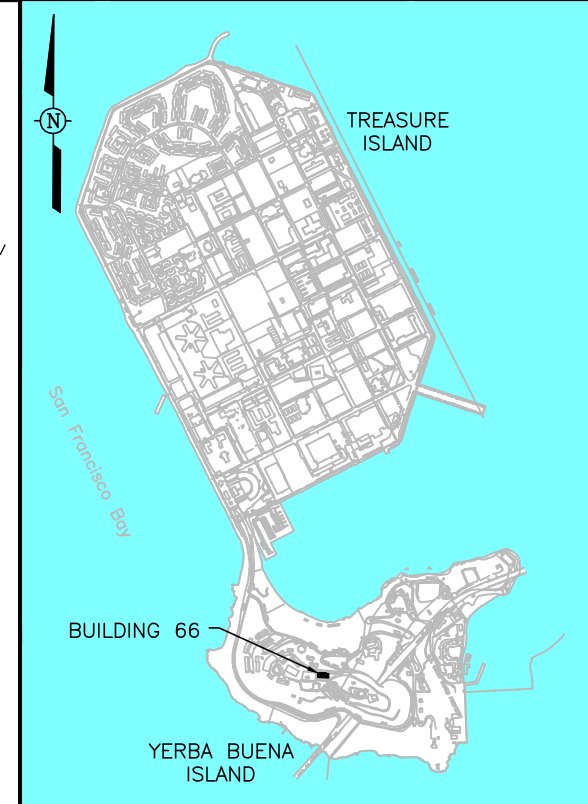
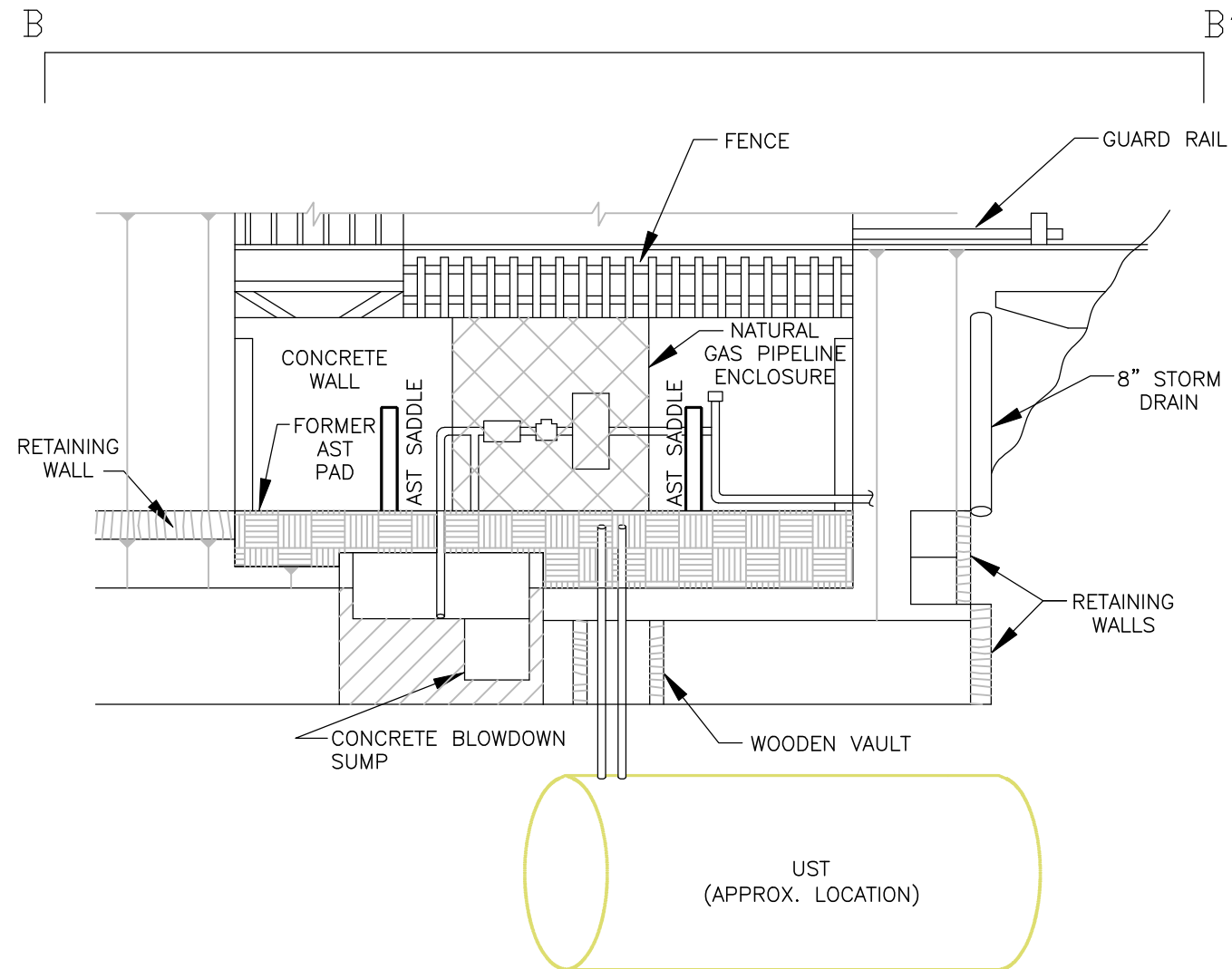
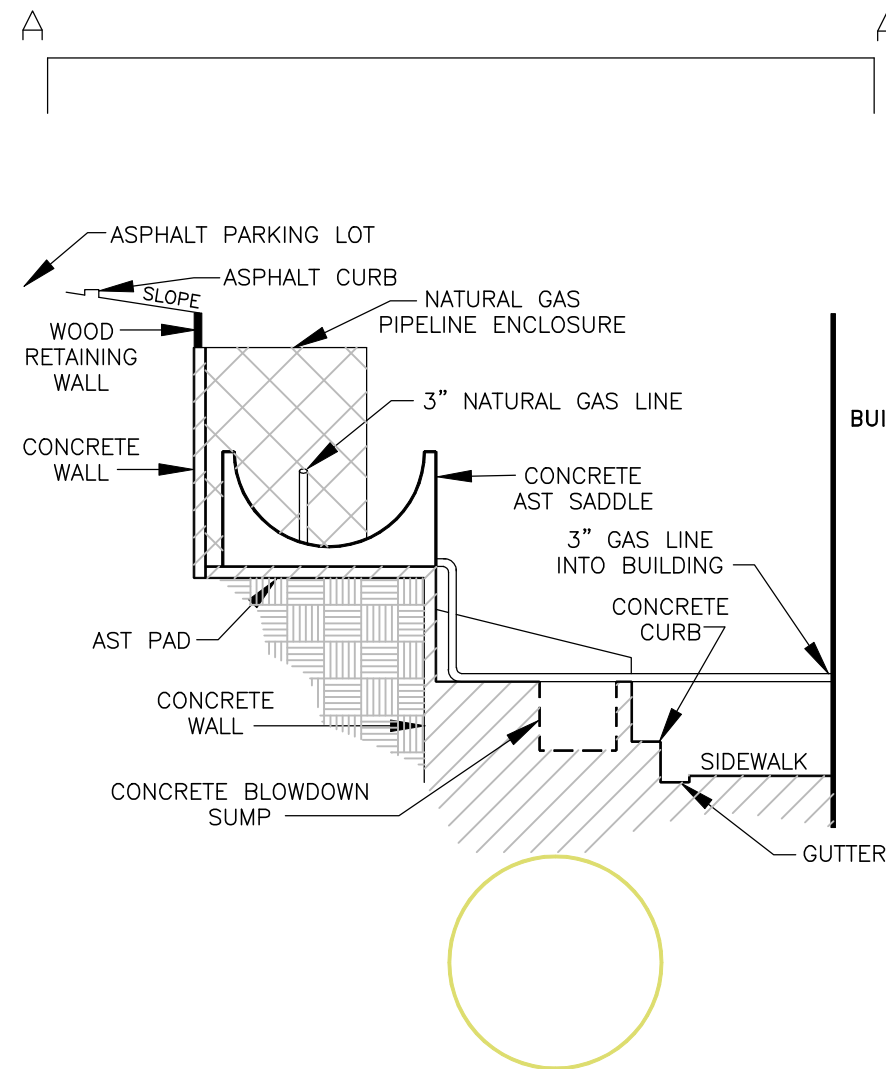
DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES
ENGINEERING COMMAND
SAN DIEGO, CALIFORNIA

FIGURE 3
BUILDING 66 EXCAVATION LIMITS AND ANALYTICAL RESULTS
YERBA BUENA ISLAND
SAN FRANCISCO, CALIFORNIA

NOTES:

- ALL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM.
- VOC RESULTS FOR SOIL BORINGS (SB) SB1 AND SB2 NOT SHOWN, AS VOCs WERE NOT DETECTED.

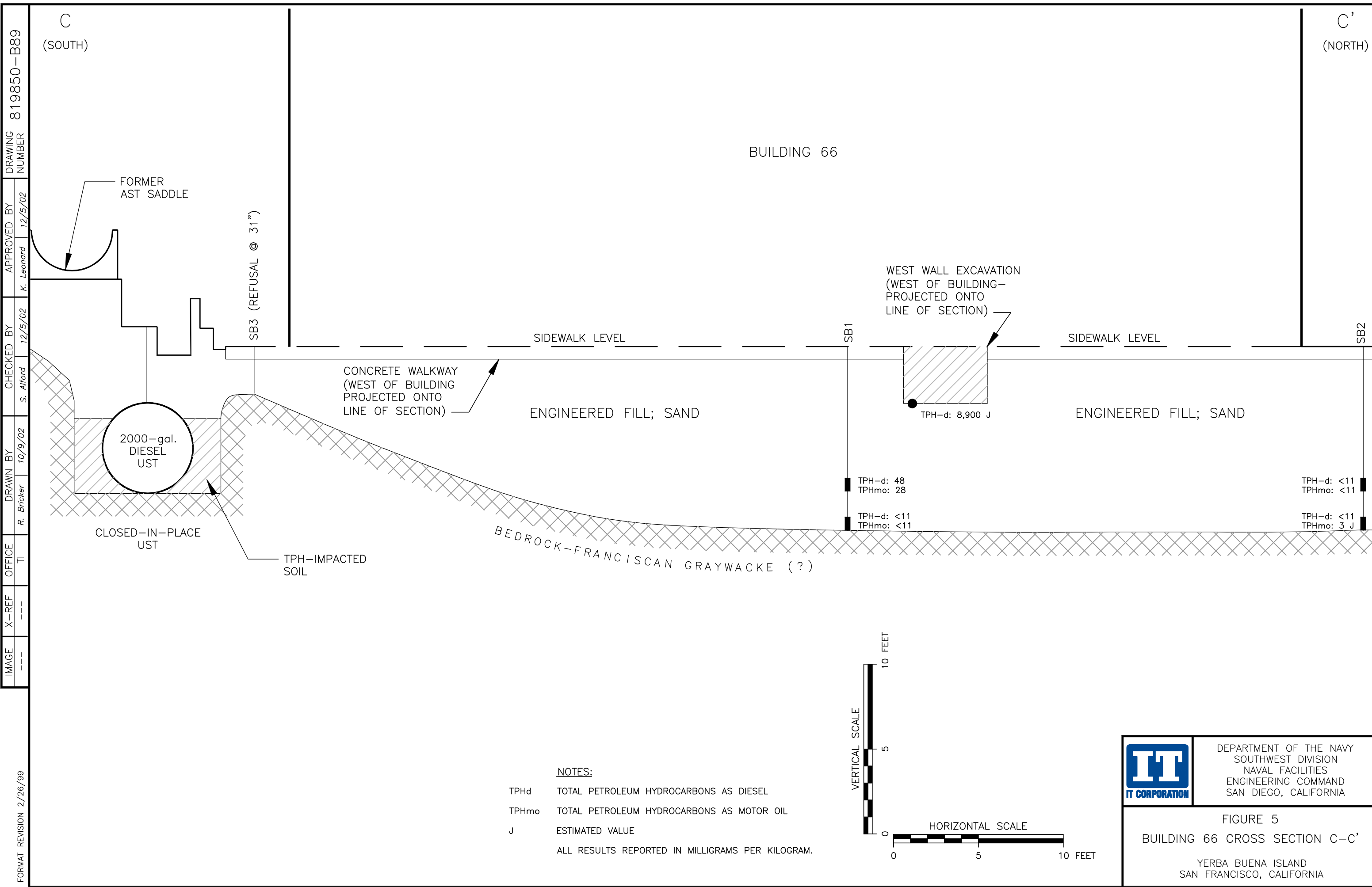
SCALE
0 15 30 FEET



- CHAIN LINK FENCE
- AST PAD (CONCRETE)
- CONCRETE

- NOTES:
- FOR PLAN LOCATION OF CROSS SECTIONS A AND B, SEE FIGURE 2.
 - CROSS SECTIONS NOT TO SCALE.

	DEPARTMENT OF THE NAVY SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND SAN DIEGO, CALIFORNIA
	FIGURE 4 BUILDING 66 UST CROSS SECTIONS A - A' AND B - B' YERBA BUENA ISLAND SAN FRANCISCO, CALIFORNIA



DRAWING NUMBER 819850-B89

APPROVED BY K. Leonard 12/5/02

CHECKED BY S. Alford 12/5/02

DRAWN BY R. Bricker 10/9/02

OFFICE TI

X-REF ---

IMAGE ---

FORMAT REVISION 2/26/99

TABLES

Table 1
Interim Cleanup Goals for Petroleum Excavations at Building 66

Compound or Mixture	Cleanup Goals (mg/kg) and/or Application	Comments
TPH and Constituents	Remove 0 to 2 feet below ground surface	Nuisance and odor criteria (remove soil with visible petroleum staining or odors)
Specific Compounds		
TPH as Diesel	1,000 ^a	Cleanup level intended only for hydrocarbons quantified by laboratory within diesel-range (C ₁₂ to C ₂₄)
TPH as Motor Oil	10,000 ^a	Cleanup level intended only for hydrocarbons quantified by laboratory within motor-oil range (C ₂₄ to C ₃₆)
Polycyclic Aromatic Hydrocarbons	0.62	Total carcinogenic and noncarcinogenic concentration based on benzo(a)pyrene equivalent
Total Lead	400 ^{b,c}	Residential regulatory guideline for lead (EPA, 1994)

Notes:

^a*Proposed cleanup criteria for TPH compounds, Regional Water Quality Control Board (RWQCB), Comments on Draft Final Work Plans, Site 20, Naval Station Treasure Island, San Francisco, letter dated June 1, 2001, to Ms. Ellen Casados, U.S. Navy ([RWQCB, 2001](#)).*

^b*Preliminary Remedial Goals for Protection of Human Health, residential scenario (EPA).*

^c*Or as agreed to with regulatory agencies.*

EPA denotes U.S. Environmental Protection Agency.

mg/kg denotes milligrams per kilogram.

TPH denotes total petroleum hydrocarbon.

Table 2
Building 66 Sample Descriptions and Sample Identifications

Sample Number	Excavation Area	Sample Location	Depth of Sample
Pre-Excavation Characterization Samples			
36-66-001	West	Soil sample from the West side of Building 66.	1 foot bgs
36-66-002	Northwest	Soil sample from the Northwest corner of Building 66.	1 foot bgs
36-66-003	Northwest	Soil sample from the Northwest corner of Building 66, adjacent to the top of the wooden staircase.	1 foot bgs
36-66-004	Northwest	Paint chip sample from the wooden stairway at the Northwest corner of Building 66.	--
36-66-005	Northwest	Soil sample from the Northwest corner of Building 66, adjacent to the wooden staircase.	1 foot bgs
36-66-006	Southwest	Soil sample from the Southwest corner of Building 66, adjacent to the wooden vault.	1 foot bgs
36-66-007	Southwest	Soil sample from the Southwest corner of Building 66, adjacent to the wooden vault. Field duplicate to sample 36-66-006.	1 foot bgs
Post-Excavation/Confirmation Samples			
36-66-008	Southwest	Water collected from the concrete blowdown sump.	--
36-66-009	Northwest	Soil sample from the Northeast corner of Tower Park Playground.	1 foot bgs
36-66-010	Northwest	Soil sample from the Northwest corner of Building 66, 2 feet west of the overhead steam line support pole.	2 feet bgs
36-66-011	Northwest	Soil sample from the Northwest corner of Building 66, 4.5 feet east of the overhead steam line support pole.	2 feet bgs
36-66-012	Northwest	Soil sample from the Northwest corner of Building 66, 1.5 feet north of the concrete catch basin.	0.5 feet bgs
36-66-013	West	Soil sample from the West side of Building 66.	2 feet bgs
36-66-014	Southwest	UST contents sample (Fuel).	--
36-66-015	Southwest	UST rinsate sample (Fuel/water).	--
36-66-017	West	Soil sample from soil boring 36-66-SB1, located on the west side of Building 66.	7.0 to 7.5 feet bgs
36-66-018	West	Soil sample from soil boring 36-66-SB1, located on the west side of Building 66.	9.0 to 9.5 feet bgs
36-66-019	Northwest	Soil sample from soil boring 36-66-SB2, located on the west side of Building 66.	7.0 to 7.5 feet bgs
36-66-020	Northwest	Soil sample from soil boring 36-66-SB2, located north of the Northwest corner of Building 66.	9.5 to 10.0 feet bgs
36-66-021	Northwest	Soil sample from soil boring 36-66-SB2, located north of the Northwest corner of Building 66. Field duplicate to 36-66-020.	9.5 to 10.0 feet bgs

bgs denotes below ground surface.

UST denotes underground storage tank.

Table 3**Pre-Excavation Sample Analytical Results**

Sample ID		36-66-001		36-66-002		36-66-003		36-66-005		36-66-006		36-66-007 ¹	
Sample Collection Date		08/09/2001		08/09/2001		08/09/2001		08/09/2001		08/09/2001		08/09/2001	
Sample Depth, feet bgs		1		1		1		1		1		1	
Parameter	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Total Petroleum Hydrocarbons (EPA 8015B)													
Diesel-range organics	mg/kg	7,700		4,000		2,070		380		2,100		1,600	
Motor-oil range organics	mg/kg	1,100	U	150	J	310		470		1,900		1,600	
Lead (EPA 6010B)													
Lead	mg/kg	-		-		285		175		-		-	

Paint Chip Sample

Sample ID		36-66-004	
Sample Collection Date		08/09/2001	
Sample Depth, feet bgs		-	
Parameter	Units	Result	Qual
Lead (EPA 6010B)			
Lead	mg/kg	31.6	

¹ Sample is a duplicate of sample 36-66-006.

bgs denotes below ground surface.

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

mg/kg denotes milligrams per kilogram.

Qual denotes Qualifier.

U qualifier indicates that the analyte was not detected at the specified detection limit.

Table 4
UST Contents - Fuel Fingerprint Analytical Results

Sample ID		36-66-014	
Sample Collection Date		08/15/2001	
Parameter	Units	Result	Qualifier
Total Petroleum Hydrocarbons - Volatiles (EPA 8015V)			
PHC as Gasoline	mg/kg	6,600	J
Total Petroleum Hydrocarbons - Extractables (EPA 8015E)			
PHC as Diesel Fuel	mg/kg	854,000	
Jet Fuel	mg/kg	40,000	U
Motor Oils	mg/kg	40,000	U

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

mg/kg denotes milligram per kilogram.

PHC denotes petroleum hydrocarbons.

U qualifier indicates that the analyte was not detected at the specified detection limit.

Table 5
UST Rinsate Sample Analytical Results

Sample ID		36-66-015	
Sample Collection Date		08/23/2001	
Parameter	Units	Result	Qualifier
Total Petroleum Hydrocarbons (EPA 8015B)			
Diesel-range organics	µg/L	4,910	
BTEX (EPA 8021)			
Benzene	µg/L	0.5	J
Toluene	µg/L	2.6	
Ethylbenzene	µg/L	3.0	
Xylenes (total)	µg/L	14	

µg/L denotes micrograms per liter.

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

Table 6**Post-Excavation and Confirmation Soil Sample Analytical Results**

Sample ID		36-66-009		36-66-010		36-66-011		36-66-012		36-66-013	
Sample Collection Date		08/15/2001		08/15/2001		08/15/2001		08/15/2001		08/15/2001	
Sample Depth, feet bgs		1		2		2		0.5		2	
Parameter	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Total Petroleum Hydrocarbons (EPA 8015B)											
Diesel-range organics	mg/kg	26		780		170		50	J	8,900	J
Motor-oil range organics	mg/kg	21	U	110		50		190		530	U
Lead (EPA 6010B)											
Lead	mg/kg	17.1	J	66.0	J	40.7	J	102	J	28.1	J
Polycyclic Aromatic Hydrocarbons (EPA 8270C SIM)											
Acenaphthene	µg/kg	-		29	U	-		-		-	
Acenaphthylene	µg/kg	-		29	U	-		-		-	
Anthracene	µg/kg	-		29	UJ	-		-		-	
Benzo(a)anthracene	µg/kg	-		29	U	-		-		-	
Benzo(a)pyrene	µg/kg	-		23	J	-		-		-	
Benzo(b)fluoranthene	µg/kg	-		33		-		-		-	
Benzo(g,h,i)perylene	µg/kg	-		22	J	-		-		-	
Benzo(k)fluoranthene	µg/kg	-		29	UJ	-		-		-	
Chrysene	µg/kg	-		22	J	-		-		-	
Dibenzo(a,h)anthracene	µg/kg	-		29	U	-		-		-	
Fluoranthene	µg/kg	-		23	J	-		-		-	
Fluorene	µg/kg	-		29	UJ	-		-		-	
Indeno(1,2,3-cd)pyrene	µg/kg	-		16	J	-		-		-	
2-Methylnaphthalene	µg/kg	-		29	UJ	-		-		-	
Naphthalene	µg/kg	-		29	UJ	-		-		-	
Phenanthrene	µg/kg	-		29	UJ	-		-		-	
Pyrene	µg/kg	-		26	J	-		-		-	
Benzo(a)pyrene Equivalency	µg/kg	-		35		-		-		-	

µg/kg denotes micrograms per kilogram.

bgs denotes below ground surface.

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

mg/kg denotes milligrams per kilogram.

Qual denotes Qualifier.

SIM denotes selective ion monitoring.

U qualifier indicates that the analyte was not detected at the specified detection limit.

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

Table 7
Soil Boring Analytical Results

Sample ID		36-66-017		36-66-018		36-66-019		36-66-020		36-66-021 ¹	
Sample Collection Date		09/19/2001		09/19/2001		09/19/2001		09/19/2001		09/19/2001	
Sample Depth, feet bgs		7.0 - 7.5		9.0 - 9.5		7.0 - 7.5		9.5 - 10.0		9.5 - 10.0	
Parameter	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Total Petroleum Hydrocarbons (EPA 8015B)											
Diesel-range organics	mg/kg	48		11	U	11	U	11	U	11	U
Motor-oil range organics	mg/kg	28		11	U	11	U	3	J	11	U
Volatile Organic Compounds (EPA 8260B)											
Benzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Bromobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Bromochloromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Bromodichloromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Bromoform	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Bromomethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
n-Butylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
sec-Butylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
tert-Butylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Carbon Tetrachloride	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Chlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Dibromochloromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Chloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Chloroform	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Chloromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
2-Chlorotoluene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
4-Chlorotoluene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2-Dibromo-3-Chloropropane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2-Dibromoethane (EDB)	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Dibromomethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2-Dichlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,3-Dichlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,4-Dichlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Dichlorodifluoromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1-Dichloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2-Dichloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1-Dichloroethene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
cis-1,2-Dichloroethene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
trans-1,2-Dichloroethene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2-Dichloropropane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,3-Dichloropropane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U

Table 7
Soil Boring Analytical Results

Sample ID		36-66-017		36-66-018		36-66-019		36-66-020		36-66-021 ¹	
Sample Collection Date		09/19/2001		09/19/2001		09/19/2001		09/19/2001		09/19/2001	
Sample Depth, feet bgs		7.0 - 7.5		9.0 - 9.5		7.0 - 7.5		9.5 - 10.0		9.5 - 10.0	
Parameter	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Volatile Organic Compounds (EPA 8260B)											
2,2-Dichloropropane	µg/kg	4.9	UJ	4.2	UJ	4.5	UJ	5.1	UJ	5.0	UJ
1,1-Dichloropropene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
cis-1,3-Dichloropropene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
trans-1,3-Dichloropropene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Ethylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Hexachlorobutadiene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Isopropylbenzene (Cumene)	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
p-Isopropyltoluene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Methylene Chloride	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Naphthalene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
n-Propylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Styrene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1,1,2-Tetrachloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1,2,2-Tetrachloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Tetrachloroethene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Toluene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2,3-Trichlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2,4-Trichlorobenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1,1-Trichloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,1,2-Trichloroethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Trichloroethene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Trichlorofluoromethane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2,3-Trichloropropane	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,2,4-Trimethylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
1,3,5-Trimethylbenzene	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Vinyl Chloride	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U
Xylenes (Total)	µg/kg	4.9	U	4.2	U	4.5	U	5.1	U	5.0	U

¹ Sample is a duplicate of sample 36-66-020.

µg/kg denotes micrograms per kilogram.

bgs denotes below ground surface.

EDB denotes ethylene dibromide.

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

mg/kg denotes milligrams per kilogram.

Qual denotes Qualifier.

U qualifier indicates that the analyte was not detected at the specified detection limit.

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

Table 8
Soil Stockpile Characterization Analytical Results

Sample ID		36-66-022	
Sample Collection Date		09/26/2001	
Parameter	Units	Result	Qualifier
Total Petroleum Hydrocarbons (EPA 8015B)			
Diesel-range organics	mg/kg	2,320	
Motor-oil range organics	mg/kg	1,500	
Title 22 Metals (EPA 6010B/7471A)			
Antimony	mg/kg	0.51	J
Arsenic	mg/kg	5.2	
Barium	mg/kg	403	
Beryllium	mg/kg	0.17	J
Cadmium	mg/kg	0.85	
Chromium	mg/kg	32.8	
Cobalt	mg/kg	12.8	
Copper	mg/kg	38.7	
Lead	mg/kg	157	
Mercury	mg/kg	0.16	J
Molybdenum	mg/kg	0.21	U
Nickel	mg/kg	37.4	
Selenium	mg/kg	0.40	J
Silver	mg/kg	0.52	U
Thallium	mg/kg	0.52	U
Vanadium	mg/kg	38.4	
Zinc	mg/kg	423	
Soluble Threshold Limit Concentration Metals (EPA 6010B)			
Lead	µg/L	5,700	
Toxicity Characteristic Leaching Procedure (EPA 6010B)			
Lead	µg/L	605	

µg/L denotes micrograms per liter.

EPA denotes U.S. Environmental Protection Agency.

J qualifier indicates that the analyte was positively identified but the associated numerical value is estimated.

mg/kg denotes milligrams per kilogram.

U qualifier indicates that the analyte was not detected at the specified detection limit.

Table 9
Wastewater Characterization Analytical Results

Sample ID			36-66-008		Regulatory Limits
Sample Collection date			08/14/2001		
Parameter	Units	Reporting Limit	Concentration	Meet the limit?	
Total Petroleum Hydrocarbons (EPA 8015B)					
Gasoline-range organics	mg/L	0.05	0.02 J		
Diesel-range organics	mg/L	0.1	0.57	Yes	100
Motor-oil range organics	mg/L	0.1	0.47		
Priority Pollutant Metals (EPA 6010B/7470A)					
Arsenic	µg/L	5	ND	Yes	4,000
Cadmium	µg/L	2	1.4 J	Yes	500
Chromium	µg/L	5	7.4	Yes	5,000
Copper	µg/L	10	1,550	Yes	4,000
Lead	µg/L	5	140	Yes	1,500
Mercury	µg/L	0.5	ND	Yes	50
Nickel	µg/L	5	22.7	Yes	2,000
Silver	µg/L	10	ND	Yes	600
Zinc	µg/L	10	1,590	Yes	7,000
Hydrocarbon Oil and Grease (EPA 1664A)					
Oil and Grease	mg/L	5	ND	Yes	300
Total Cyanide (EPA 335.2)					
Cyanide	mg/L	0.05	ND	Yes	1.0
Total Suspended Solids (EPA 160.2)					
TSS	mg/L	10	48	N/A	-
Chemical Oxygen Demand (EPA 410.4)					
COD	mg-O ₂ /L	20	43	N/A	-
pH (EPA 9040B)					
pH	SU	-	7.52	Yes	6.0 - 9.5
Phenol Compounds (EPA 8270)					
Phenol	mg/L	0.01	ND	Yes	23
Dissolved Sulfide (EPA 376.2)					
Dissolved Sulfide	mg/L	0.2	ND	Yes	0.5
Volatile Organic Compounds (EPA 8260B)					
Benzene	µg/L	1	ND	N/A	-
Bromobenzene	µg/L	1	ND	N/A	-
Bromochloromethane	µg/L	1	ND	N/A	-
Bromodichloromethane	µg/L	1	ND	N/A	-
Bromoform	µg/L	1	ND	N/A	-
Bromomethane	µg/L	1	ND	N/A	-
n-Butylbenzene	µg/L	1	ND	N/A	-
sec-Butylbenzene	µg/L	1	ND	N/A	-
tert-Butylbenzene	µg/L	1	ND	N/A	-
Carbon Tetrachloride	µg/L	1	ND	N/A	-
Chlorobenzene	µg/L	1	ND	N/A	-
Dibromochloromethane	µg/L	1	ND	N/A	-
Chloroethane	µg/L	1	ND	N/A	-
Chloroform	µg/L	1	ND	N/A	-
Chloromethane	µg/L	1	ND	N/A	-
2-Chlorotoluene	µg/L	1	ND	N/A	-
4-Chlorotoluene	µg/L	1	ND	N/A	-
1,2-Dibromo-3-Chloropropane	µg/L	1	ND	N/A	-
1,2-Dibromoethane (EDB)	µg/L	1	ND	N/A	-

Table 9
Wastewater Characterization Analytical Results

Sample ID			36-66-008		Regulatory Limits
Sample Collection date			08/14/2001		
Parameter	Units	Reporting Limit	Concentration	Meet the limit?	
Volatile Organic Compounds (EPA 8260B)					
Dibromomethane	µg/L	1	ND	N/A	-
1,2-Dichlorobenzene	µg/L	1	ND	N/A	-
1,3-Dichlorobenzene	µg/L	1	ND	N/A	-
1,4-Dichlorobenzene	µg/L	1	ND	N/A	-
Dichlorodifluoromethane	µg/L	1	ND	N/A	-
1,1-Dichloroethane	µg/L	1	ND	N/A	-
1,2-Dichloroethane	µg/L	1	ND	N/A	-
1,1-Dichloroethene	µg/L	1	ND	N/A	-
cis-1,2-Dichloroethene	µg/L	1	ND	N/A	-
trans-1,2-Dichloroethene	µg/L	1	ND	N/A	-
1,2-Dichloropropane	µg/L	1	ND	N/A	-
1,3-Dichloropropane	µg/L	1	ND	N/A	-
2,2-Dichloropropane	µg/L	1	ND	N/A	-
1,1-Dichloropropene	µg/L	1	ND	N/A	-
cis-1,3-Dichloropropene	µg/L	1	ND	N/A	-
trans-1,3-Dichloropropene	µg/L	1	ND	N/A	-
Ethyl benzene	µg/L	1	ND	N/A	-
Hexachlorobutadiene	µg/L	1	ND	N/A	-
Isopropylbenzene (Cumene)	µg/L	1	ND	N/A	-
p-Isopropyltoluene	µg/L	1	ND	N/A	-
Methylene Chloride	µg/L	1	1 J	N/A	-
Naphthalene	µg/L	1	ND	N/A	-
n-Propylbenzene	µg/L	1	ND	N/A	-
Styrene	µg/L	1	ND	N/A	-
1,1,1,2-Tetrachloroethane	µg/L	1	ND	N/A	-
1,1,2,2-Tetrachloroethane	µg/L	1	ND	N/A	-
Tetrachloroethene	µg/L	1	ND	N/A	-
Toluene	µg/L	1	ND	N/A	-
1,2,3-Trichlorobenzene	µg/L	1	ND	N/A	-
1,2,4-Trichlorobenzene	µg/L	1	ND	N/A	-
1,1,1-Trichloroethane	µg/L	1	ND	N/A	-
1,1,2-Trichloroethane	µg/L	1	ND	N/A	-
Trichloroethene	µg/L	1	ND	N/A	-
Trichlorofluoromethane	µg/L	1	ND	N/A	-
1,2,3-Trichloropropane	µg/L	1	ND	N/A	-
1,2,4-Trimethylbenzene	µg/L	1	ND	N/A	-
1,3,5-Trimethylbenzene	µg/L	1	ND	N/A	-
Vinyl Chloride	µg/L	1	ND	N/A	-
Xylenes (Total)	µg/L	1	ND	N/A	-

µg/L denotes micrograms per liter.

EDB denotes ethylene dibromide.

EPA denotes U.S. Environmental Protection Agency.

J denotes estimated value, between Method Detection Limit (MDL) and Practical Quantitation Limit (PQL).

mg/L denotes milligrams per liter (ppm).

mg-O₂/L denotes milligrams oxygen per liter.

N/A denotes not applicable.

ND denotes Not Detected at or above the stated Reporting Limit.

RL denotes Reporting Limit.

SU denotes standard units.

PHOTOGRAPHS



Photograph 1: View looking south of stained soil areas. Strong petroleum odor detected in soil on both sides of fence (playground on western side of fence).



Photograph 2: View looking north toward catch basin. Stained soil had a strong petroleum odor.



Photograph 3: View looking north along west side of building. Soil at this location had a strong petroleum odor.



Photograph 4: View of concrete drain along western side of building. Water in this drain had a slight oily sheen.



Photograph 5: Sandbags placed to absorb petroleum product on the southern side of Building 66.



Photograph 6: Location of former AST and natural gas manifold.



Photograph 7: View looking south into vault overlying the previously undocumented UST. Obvious petroleum odor and staining were observed on wood cover.



Photograph 8: View looking south at western stairway and catch basin. Obvious petroleum odor was noted between stairway and basin.



Photograph 9: Excavation around wooden vault above discovered UST.



Photograph 10: Petroleum infiltrating the wooden vault excavation.



Photograph 11: West wall excavation.



Photograph 11a: View of west wall excavation, removed concrete sidewalk, and storm drain gutter.



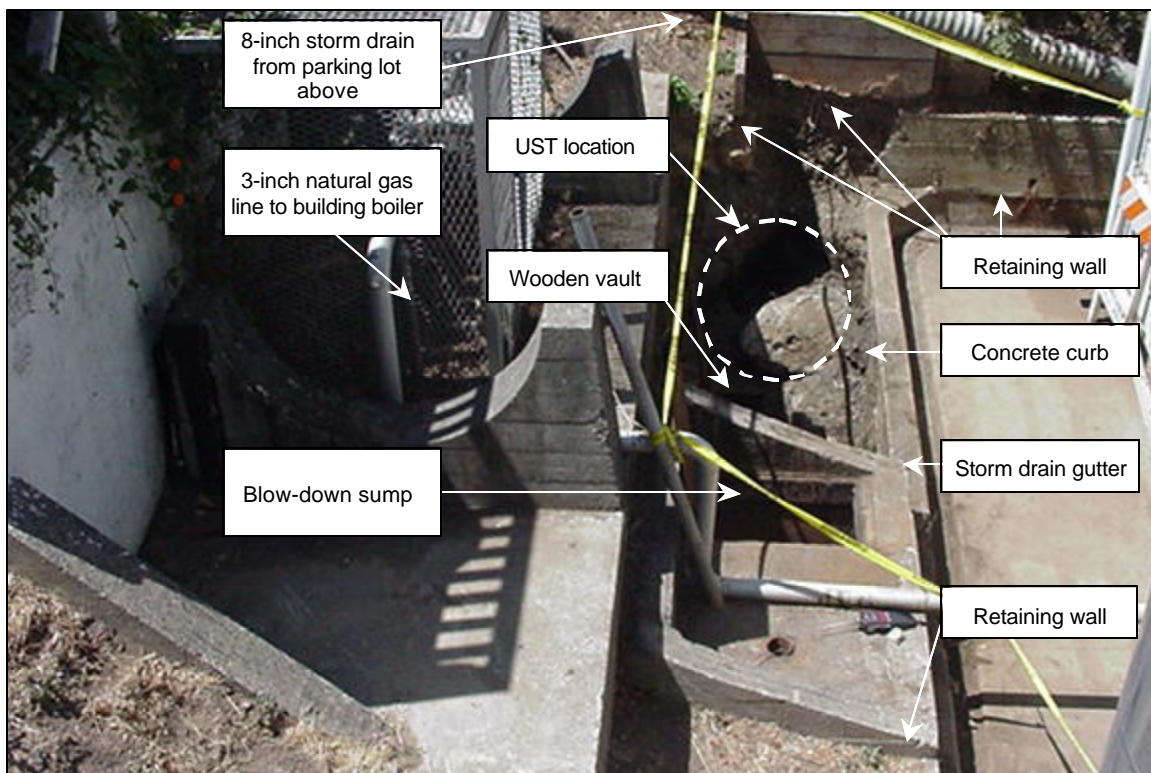
Photograph 12: View of TPH removal area between the wooden stairway and catch basin at the northwest corner of Building 66.



Photograph 13: Excavation at the corner of Tower Park Playground.



Photograph 14: Excavation adjacent to Tower Park Playground and west of steam line support pole.



Photograph 15: UST location in relation to building and other infrastructure preventing UST removal.



Photograph 16: Removal of UST contents.



Photograph 17: Removal of UST contents.



Photograph 18: Filling UST with sand/cement slurry.



Photograph 19: Filling excavation above UST with sand/cement slurry.



Photograph 20: Filled excavation above UST.



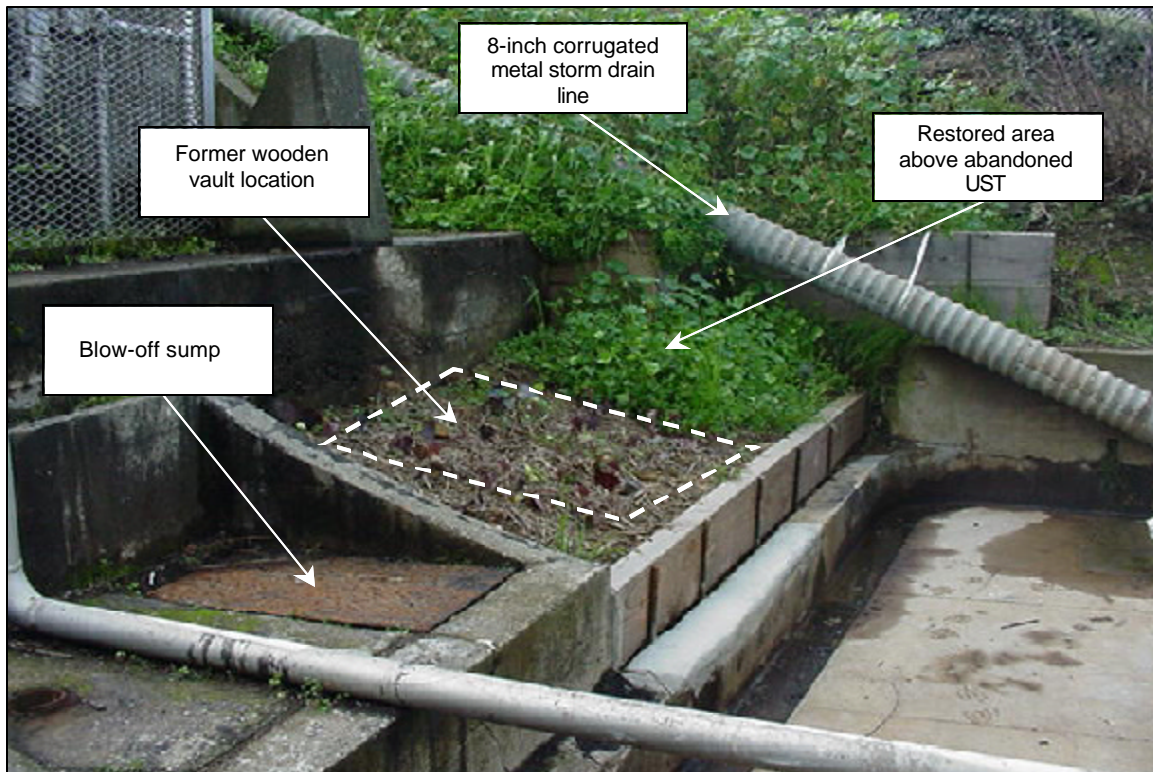
Photograph 21: Drilling activities at northwest corner of building.



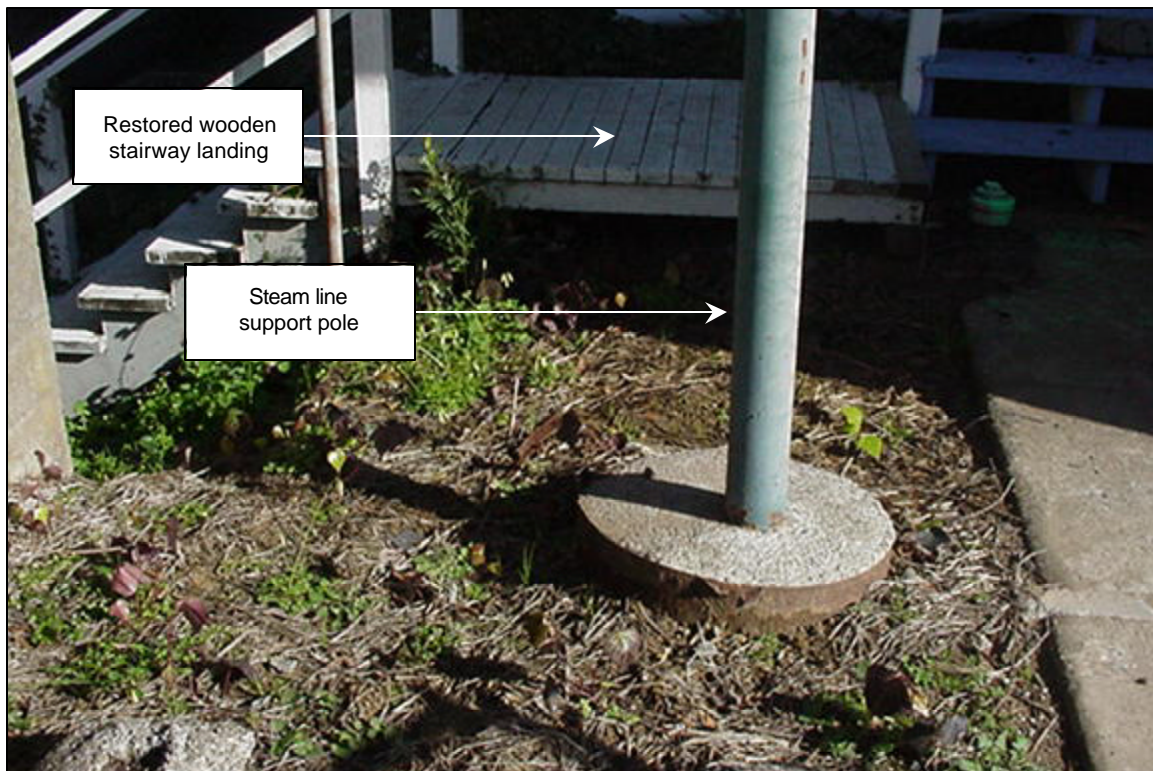
Photograph 22: Restored view of northwest corner of building.



Photograph 23: View looking south along the western wall of Building 66 showing the restored concrete sidewalk and storm gutter.



Photograph 24: View of restored area above the abandoned UST at the southwest corner of Building 66.



Photograph 25: Looking east at the restored wooden stairway landing located at the northwest corner of Building 66.

APPENDIX A EXCAVATION AUTHORIZATION PERMIT

REQUEST NO 237

EXCAVATION PERMIT REQUEST
TREASURE ISLAND/YERBA BUENA ISLAND
(Revised 14 Feb 2000)

PART I, DESCRIPTION OF PLANNED WORK (To be completed by Requestor)

1. Purpose of Excavation: Remove TPH contaminated soil.
2. Location of Excavation: Yerba Buena Isl., Building 66, Buena & Signal Road (see attachment)
3. Extent and Depth of Excavation: 1.5:1 foot sloping ratio (h:v) with a 3' max depth
4. Building/Utility/Traffic Affected by Excavation: Traffic diversion and temporary closure of adjacent residential exit during daily activities.
5. Disposition of Debris: IT Corp will remove/dispose all debris.
6. Disposition of Soil: IT will contract disposal/transport services.
7. Disposition Of Groundwater: IT will contain and dispose.
8. Disposition of Hazardous Waste: IT will contract waste disposal/transport services.
9. Location and Marking of Utilities: USA Notification Required
 - a. USA Chit Number: 229304
10. Additional Information: _____
11. Requested by (name): Rob Rohrbaugh
 - a. Company & Address: _____ IT Corporation
_____ Bldg 570, Avenue M
_____ San Francisco, CA 94130
 - b. Contractor's License No: 13742 Phone: (415) 217-7925 FAX: (415) 398-6879
12. Proposed Start Date: 8/6/01 Proposed Completion Date: 8/31/01

Please note: For all contractors performing work at TI/YBI (does not apply to SFPUC performing O & M related work): A **License For Nonfederal Use of Real Property** is required prior to processing of excavation permit.
Has subject license been issued? Yes ☐ No ☒ NA If Yes, License No: Work is under US NAVY subcontract

QUESTIONS PERTAINING TO THIS FORM? PLEASE CALL 415-274-0334.
PLEASE RETURN COMPLETED FORM TO: TREASURE ISLAND UTILITIES 1065 13th Street, Treasure Island, San Francisco, CA 94130 (FAX'D SUBMITTALS ACCEPTABLE: 415-274-0691)

PART II, REQUEST AUTHORIZATION (To be completed by Navy/TIDA/SFPUC)

1. Request Received by: Zorzycki Date: 7/25/01
2. Navy Environ. Comp. Mgr: I/R Site: YES ☒ NO 27/26/01 Date: 7/26/01
3. Navy CSO: [Signature] Date: 7/26/01
4. TIDA Facilities Mgr: COPOLKOR Date: 7/26/01
Notification to Lessee/Licensee/Tenant/DoL: YES ☐ NO ☒ Date: _____
5. SFPUC TI Utilities Mgr: [Signature] Date: 7/31/01
6. Requestor Notified Via: Phone _____ FAX _____ Letter _____ In Person 7/31/01
Comments: _____

Important Phone Numbers:

Underground Service Alert (USA)	1-800-227-2600
Treasure Island Development Authority Fac Mgr:	415-274-0662
SFPUC Treasure Island Utilities Mgr:	415-274-0333

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Soil and Paint Chip Results

Fuel Results and Chromatogram

Tank Rinsate Sampling Results

Chain-of-Custody Records

SOIL AND PAINT CHIP RESULTS

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: Mike Yurovsky
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925) 288-9898 Fax: (925) 288-0888

Service ID #: 801-015185
Collected by: AW/AJ/SA
Collected on: 08/09/01
Sample Description: Soil and Paint Chips from Bldg. 66
Project Description: 819850 Treasure Island CTO 36

Received: 08/10/01
Extracted: 08/10/01
Tested: 08/10-13/01
Reported: 08/13/01

Analysis of Soil & Paint Chip Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-001 01-05185-1	36-66-002 01-05185-2	36-66-003 01-05185-3
PERCENT MOISTURE	ASTM-D2216	W%	0.5	11.7	11.8	10
Dilution Factor				100	20	5
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	7,700	4,000	2,070
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	< 1100	150J	310

Component Analyzed	Method	Unit	PQL	Analysis Result			
				36-66-004 01-05185-4	36-66-005 01-05185-5	36-66-006 01-05185-6	36-66-007 01-05185-7
PERCENT MOISTURE	ASTM-D2216	W%	0.5	6.7	10.4	3.4	3.1
Dilution Factor				1	5	20	20
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	-	380 (a)	2,100	1,600
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	-	470 (a)	1,900	1,600

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-003 01-05185-3	36-66-004 01-05185-4	36-66-005 01-05185-5
Dilution Factor				2	1	2
LEAD, PB	6010B	mg/kg	0.3	285	31.6	175

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

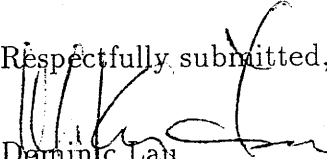
J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Unknown mixture in Diesel/Motor Oil range.

Respectfully submitted,


Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: Mike Yurovsky
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-015279
Collected by: AW/AJ
Collected on: 08/15/01
Sample Description: Soil from Bldg 66
Project Description: 819850 Treasure Island CTO 36

Received: 08/16/01
Extracted: 08/16/01
Tested: 08/17/01
Reported: 08/17/01

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-009	36-66-010
				01-05279-1	01-05279-2
PERCENT MOISTURE	ASTM-D2216	W%	0.5	6.9	12.7
Dilution Factor				1	5
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	26	780
Dilution Factor				1	5
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	21	110

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-011	36-66-012	36-66-013
				01-05279-3	01-05279-4	01-05279-5
PERCENT MOISTURE	ASTM-D2216	W%	0.5	11.8	3.1	4.9
Dilution Factor				1	5	50
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	170	50J ^(a)	8,900
Dilution Factor				1	5	50
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	50	190	< 530

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Unknown mixture in Diesel range.

Respectfully submitted,



Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

The IT Group

Attention: Mike Yurovsky

4005 Port Chicago Highway

Concord CA 94520-1120

Tel: (925) 288-9898 Fax: (925) 288-0888

APCL Analytical Report

Service ID #: 801-015350

Collected by: AW/AJ

Collected on: 08/15/01

Received: 08/16/01

Extracted: 08/20/01

Tested: 08/21-24/01

Revised: 08/24/01

Sample Description: Soil from Bldg 66

Project Description: 819850 CTO 36 Treasure Island

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-009 01-05350-1	36-66-010 01-05350-2
PERCENT MOISTURE ^(b)	ASTM-D2216	W%	0.5	6.9	12.7
Dilution Factor				1	1
LEAD, PB,	6010	mg/kg	0.3	17.1	66.0

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-011 01-05350-3	36-66-012 01-05350-4	36-66-013 01-05350-5
PERCENT MOISTURE ^(b)	ASTM-D2216	W%	0.5	11.8	3.1	4.9
Dilution Factor				1	1	1
LEAD, PB,	6010	mg/kg	0.3	40.7	102	28.1

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-010 01-05350-2	
PAH (NOAA) ^(c)					
Dilution Factor					1
ACENAPHTHENE	PAH-SIM	µg/kg	25		< 29
ACENAPHTHYLENE	PAH-SIM	µg/kg	25		< 29
ANTHRACENE	PAH-SIM	µg/kg	25		< 29
BENZO(A)ANTHRACENE	PAH-SIM	µg/kg	25		< 29
BENZO(A)PYRENE	PAH-SIM	µg/kg	25		23J
BENZO(B)FLUORANTHENE	PAH-SIM	µg/kg	25		33
BENZO(G,H,I)PERYLENE	PAH-SIM	µg/kg	25		22J
BENZO(K)FLUORANTHENE	PAH-SIM	µg/kg	25		< 29
CHRYSENE	PAH-SIM	µg/kg	25		22J
DIBENZ(A,H)ANTHRACENE	PAH-SIM	µg/kg	25		< 29
FLUORANTHENE	PAH-SIM	µg/kg	25		23J
FLUORENE	PAH-SIM	µg/kg	25		< 29
INDENO(1,2,3-C,D)PYRENE	PAH-SIM	µg/kg	25		16J

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-010
				01-05350-2
2-METHYLNAPHTHALENE	PAH-SIM	µg/kg	25	< 29
NAPHTHALENE	PAH-SIM	µg/kg	25	< 29
PHENANTHRENE	PAH-SIM	µg/kg	25	< 29
PYRENE	PAH-SIM	µg/kg	25	26J

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

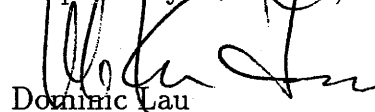
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Additional analysis for 01-5279 requested on 08/20/01.

(b) Result from 01-5279.

(c) Re-analyzed on 08/24/01.

Respectfully submitted,



Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

The IT Group

Attention: Mike Yurovsky

4005 Port Chicago Highway

Concord CA 94520-1120

Tel: (925)288-9898 Fax: (925)288-0888

APCL Analytical Report

Service ID #: 801-015898

Collected by: AW/AJ/CN

Collected on: 09/19/01

Received: 09/20/01

Extracted: 09/20/01

Tested: 09/20-21/01

Reported: 09/21/01

Sample Description: Soil from Bldg 66

Project Description: 819850 Treasure Island CTO 36

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-017	36-66-018
				01-05898-1	01-05898-2
PERCENT MOISTURE	ASTM-D2216	W%	0.5	9.6	11.1
Dilution Factor				1	1
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	48	<11
Dilution Factor				1	1
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	28	<11
VOLATILE ORGANICS					
Dilution Factor				0.88	0.75
BENZENE	8260B	µg/kg	5	<4.9	<4.2
BROMOBENZENE	8260B	µg/kg	5	<4.9	<4.2
BROMOCHLOROMETHANE	8260B	µg/kg	5	<4.9	<4.2
BROMODICHLOROMETHANE	8260B	µg/kg	5	<4.9	<4.2
BROMOFORM	8260B	µg/kg	5	<4.9	<4.2
BROMOMETHANE	8260B	µg/kg	5	<4.9	<4.2
N-BUTYLBENZENE	8260B	µg/kg	5	<4.9	<4.2
SEC-BUTYLBENZENE	8260B	µg/kg	5	<4.9	<4.2
TERT-BUTYLBENZENE	8260B	µg/kg	5	<4.9	<4.2
CARBON TETRACHLORIDE	8260B	µg/kg	5	<4.9	<4.2
CHLOROBENZENE	8260B	µg/kg	5	<4.9	<4.2
DIBROMOCHLOROMETHANE	8260B	µg/kg	5	<4.9	<4.2
CHLOROETHANE	8260B	µg/kg	5	<4.9	<4.2
CHLOROFORM	8260B	µg/kg	5	<4.9	<4.2
CHLOROMETHANE	8260B	µg/kg	5	<4.9	<4.2
2-CHLOROTOLUENE	8260B	µg/kg	5	<4.9	<4.2
4-CHLOROTOLUENE	8260B	µg/kg	5	<4.9	<4.2
1,2-DIBROMO-3-CHLOROPROPANE	8260B	µg/kg	5	<4.9	<4.2
1,2-DIBROMOETHANE (EDB)	8260B	µg/kg	5	<4.9	<4.2
DIBROMOMETHANE	8260B	µg/kg	5	<4.9	<4.2
1,2-DICHLOROBENZENE	8260B	µg/kg	5	<4.9	<4.2
1,3-DICHLOROBENZENE	8260B	µg/kg	5	<4.9	<4.2
1,4-DICHLOROBENZENE	8260B	µg/kg	5	<4.9	<4.2
DICHLORODIFLUOROMETHANE	8260B	µg/kg	5	<4.9	<4.2
1,1-DICHLOROETHANE	8260B	µg/kg	5	<4.9	<4.2
1,2-DICHLOROETHANE	8260B	µg/kg	5	<4.9	<4.2
1,1-DICHLOROETHENE	8260B	µg/kg	5	<4.9	<4.2

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-017	36-66-018
				01-05898-1	01-05898-2
CIS-1,2-DICHLOROETHENE	8260B	µg/kg	5	< 4.9	< 4.2
TRANS-1,2-DICHLOROETHENE	8260B	µg/kg	5	< 4.9	< 4.2
1,2-DICHLOROPROPANE	8260B	µg/kg	5	< 4.9	< 4.2
1,3-DICHLOROPROPANE	8260B	µg/kg	5	< 4.9	< 4.2
2,2-DICHLOROPROPANE	8260B	µg/kg	5	< 4.9	< 4.2
1,1-DICHLOROPROPENE	8260B	µg/kg	5	< 4.9	< 4.2
CIS-1,3-DICHLOROPROPENE	8260B	µg/kg	5	< 4.9	< 4.2
TRANS-1,3-DICHLOROPROPENE	8260B	µg/kg	5	< 4.9	< 4.2
ETHYLBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
HEXACHLOROBUTADIENE	8260B	µg/kg	5	< 4.9	< 4.2
ISOPROPYLBENZENE (CUMENE)	8260B	µg/kg	5	< 4.9	< 4.2
P-ISOPROPYLTOLUENE	8260B	µg/kg	5	< 4.9	< 4.2
METHYLENE CHLORIDE	8260B	µg/kg	5	< 4.9	< 4.2
NAPHTHALENE	8260B	µg/kg	5	< 4.9	< 4.2
N-PROPYLBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
STYRENE	8260B	µg/kg	5	< 4.9	< 4.2
1,1,1,2-TETRACHLOROETHANE	8260B	µg/kg	5	< 4.9	< 4.2
1,1,2,2-TETRACHLOROETHANE	8260B	µg/kg	5	< 4.9	< 4.2
TETRACHLOROETHENE	8260B	µg/kg	5	< 4.9	< 4.2
TOLUENE	8260B	µg/kg	5	< 4.9	< 4.2
1,2,3-TRICHLOROBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
1,2,4-TRICHLOROBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
1,1,1-TRICHLOROETHANE	8260B	µg/kg	5	< 4.9	< 4.2
1,1,2-TRICHLOROETHANE	8260B	µg/kg	5	< 4.9	< 4.2
TRICHLOROETHENE	8260B	µg/kg	5	< 4.9	< 4.2
TRICHLOROFLUOROMETHANE	8260B	µg/kg	5	< 4.9	< 4.2
1,2,3-TRICHLOROPROPANE	8260B	µg/kg	5	< 4.9	< 4.2
1,2,4-TRIMETHYLBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
1,3,5-TRIMETHYLBENZENE	8260B	µg/kg	5	< 4.9	< 4.2
VINYL CHLORIDE	8260B	µg/kg	5	< 4.9	< 4.2
XYLENE (TOTAL)	8260B	µg/kg	5	< 4.9	< 4.2

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-019 01-05898-3	36-66-020 01-05898-4	36-66-021 01-05898-5
PERCENT MOISTURE	ASTM-D2216	W%	0.5	6.4	11.6	10.6
Dilution Factor				1	1	1
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	<11	<11	<11
Dilution Factor				1	1	1
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	<11	3J	<11
VOLATILE ORGANICS						
Dilution Factor				0.84	0.91	0.9
BENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
BROMOBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
BROMOCHLOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
BROMODICHLOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
BROMOFORM	8260B	µg/kg	5	<4.5	<5.1	<5.0
BROMOMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
N-BUTYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
SEC-BUTYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TERT-BUTYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CARBON TETRACHLORIDE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
DIBROMOCHLOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CHLOROFORM	8260B	µg/kg	5	<4.5	<5.1	<5.0
CHLOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
2-CHLOROTOLUENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
4-CHLOROTOLUENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2-DIBROMO-3-CHLOROPROPANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2-DIBROMOETHANE (EDB)	8260B	µg/kg	5	<4.5	<5.1	<5.0
DIBROMOMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2-DICHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,3-DICHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,4-DICHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
DICHLORODIFLUOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1-DICHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2-DICHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1-DICHLOROETHENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CIS-1,2-DICHLOROETHENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TRANS-1,2-DICHLOROETHENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2-DICHLOROPROPANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,3-DICHLOROPROPANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
2,2-DICHLOROPROPANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1-DICHLOROPROPENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
CIS-1,3-DICHLOROPROPENE	8260B	µg/kg	5	<4.5	<5.1	<5.0

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				36-66-019 01-05898-3	36-66-020 01-05898-4	36-66-021 01-05898-5
TRANS-1,3-DICHLOROPROPENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
ETHYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
HEXACHLOROBUTADIENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
ISOPROPYLBENZENE (CUMENE)	8260B	µg/kg	5	<4.5	<5.1	<5.0
P-ISOPROPYLTOLUENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
METHYLENE CHLORIDE	8260B	µg/kg	5	<4.5	<5.1	<5.0
NAPHTHALENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
N-PROPYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
STYRENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1,1,2-TETRACHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1,2,2-TETRACHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TETRACHLOROETHENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TOLUENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2,3-TRICHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2,4-TRICHLOROBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1,1-TRICHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,1,2-TRICHLOROETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TRICHLOROETHENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
TRICHLOROFLUOROMETHANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2,3-TRICHLOROPROPANE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,2,4-TRIMETHYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
1,3,5-TRIMETHYLBENZENE	8260B	µg/kg	5	<4.5	<5.1	<5.0
VINYL CHLORIDE	8260B	µg/kg	5	<4.5	<5.1	<5.0
XYLENE (TOTAL)	8260B	µg/kg	5	<4.5	<5.1	<5.0

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

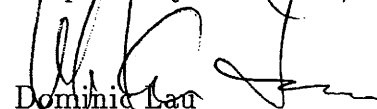
"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

The IT Group

Attention: Mike Yurovsky

4005 Port Chicago Highway

Concord CA 94520-1120

Tel: (925)288-9898 Fax: (925)288-0888

APCL Analytical Report

Service ID #: 801-016035

Collected by: AW

Collected on: 09/26/01

Received: 09/27/01

Extracted: 09/28/01

Tested: 09/27-29/01

Reported: 10/02/01

Sample Description: Soil from Composite Stockpile

Project Description: 819850 CTO 36 Treasure Isle

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-022 01-06035-1
PERCENT MOISTURE	ASTM-D2216	W%	0.5	4.7
TTL 17 METALS				
ANTIMONY	6010B	mg/kg	5	0.51J
ARSENIC	6010B	mg/kg	0.3	5.2
BARIUM	6010B	mg/kg	1	403
BERYLLIUM	6010B	mg/kg	0.2	0.17J
CADMIUM	6010B	mg/kg	0.2	0.85
CHROMIUM, TOTAL	6010B	mg/kg	0.5	32.8
COBALT	6010B	mg/kg	0.5	12.8
COPPER	6010B	mg/kg	0.5	38.7
LEAD	6010B	mg/kg	0.3	157
MERCURY	7471A	mg/kg	0.2	0.16J
MOLYBDENUM	6010B	mg/kg	0.2	<0.21
NICKEL	6010B	mg/kg	0.3	37.4
SELENIUM	6010B	mg/kg	0.5	0.40J
SILVER	6010B	mg/kg	0.5	<0.52
THALLIUM	6010B	mg/kg	0.5	<0.52
VANADIUM	6010B	mg/kg	0.5	38.4
ZINC	6010B	mg/kg	0.5	423
Dilution Factor				10
DIESEL RANGE ORGANICS	M8015E	mg/kg	10	2,320
Dilution Factor				10
MOTOR OIL RANGE ORGANICS	M8015E	mg/kg	10	1,500

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

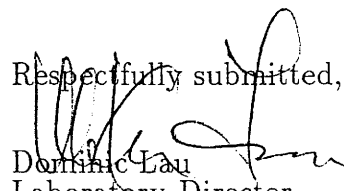
"-": Analysis is not required.

J: Reported between PQL and MDL.

† All results are reported on dry basis for soil samples.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,


Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: Mike Yurovsky
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925) 288-9898 Fax: (925) 288-0888

Service ID #: 801-016159
Collected by: AW
Collected on: 09/26/01
Received: 09/27/01
Extracted: 10/03-10/01
Tested: 10/05-11/01
Reported: 10/12/01
Sample Description: Soil from Composite Stockpile
Project Description: 819850 Treasure Island CTO 36

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-022 01-06159-1
Dilution Factor				5
STLC LEAD, PB ^(a)	6010B	µg/L	5	5,700
Dilution Factor				2
TCLP LEAD, PB ^(b)	6010B	µg/L	5	605

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Additional analysis for 01-6035 requested on 10/03/01.

^(b) Additional analysis requested on 10/09/01.

Respectfully submitted,



Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

FUEL RESULTS AND CHROMATOGRAM

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: Mike Yurovsky
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925) 288-9898 Fax: (925) 288-0888

Service ID #: 801-015281 Received: 08/16/01
Collected by: AW/AJ Extracted: 08/16/01
Collected on: 08/15/01 Tested: 08/16-17/01
Reported: 08/17/01
Sample Description: Oil from Bldg 66
Project Description: 819850 Treasure Island CTO 36

Analysis of Oil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-014 01-05281-1
Dilution Factor				10000
PHC AS GASOLINE	M8015V	mg/kg	1	6,600J ^(a)
Dilution Factor				4000
PHC AS DIESEL FUEL	M8015E	mg/kg	10	854,000
JET FUEL	M8015E	mg/kg	10	< 40000
MOTOR OILS	M8015E	mg/kg	10	< 40000

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

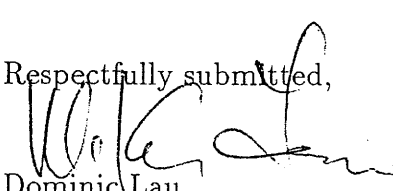
"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

^(a) Not a typical gas pattern. Most of the peaks in the chromatogram correspond to the heavier portion of the chain.

Respectfully submitted,


Dominic Lau

Laboratory Director
Applied P & Ch Laboratory

File : C:\data\0108\luftb\01g3952\5281.101
Method : c:\ezchrom\methods\Luft078.b00
Sample ID : 5281-1 f=10000 @h
Acquired : Aug 16, 2001 17:31:51
Printed : Aug 16, 2001 17:50:12

Channel A Results

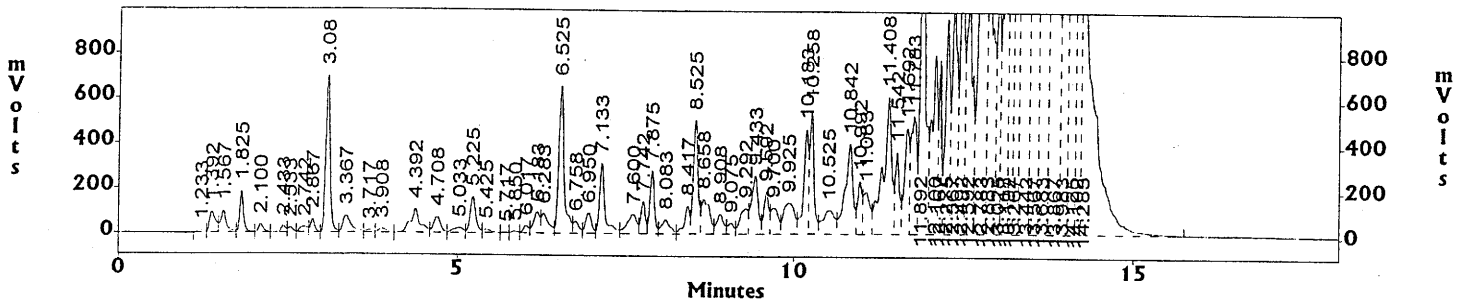
No.	Name	RT, min	Area	H, V	Ave RF	ESTD (ppb)
10	2. TFT	3.08	3215639	698008	0.00000	0.0
24	11. Chlorobenzene	6.53	3569078	654323	36015.71875	99.1
33	7. BFB	8.52	2440163	504838	22986.62305	106.2
52	10. 3-Br-cl-bz	11.89	9122736	2187918	0.00000	0.0
G1	1. Gasoline		18860296		28565.26367	660.3

Channel B Results

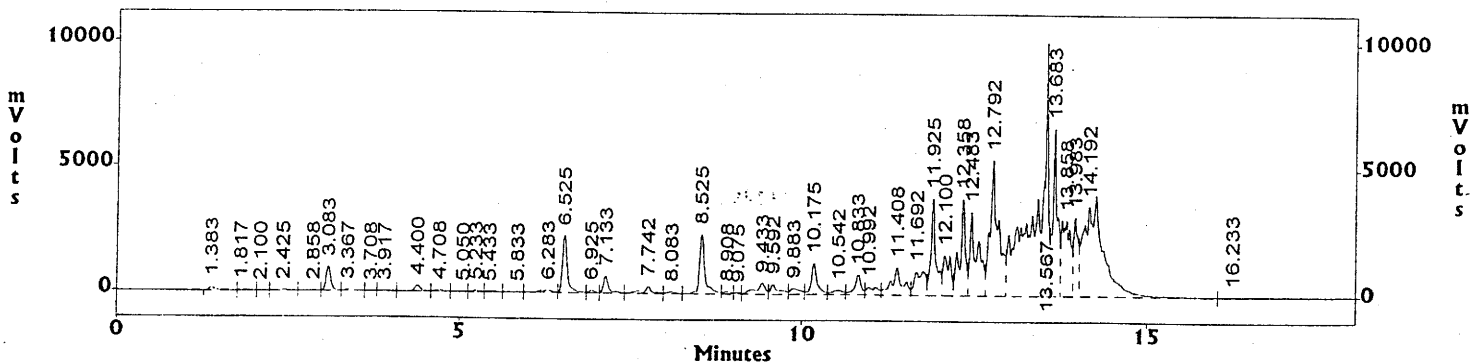
No.	Name	Rt. min	Area	H, V	Ave. Rf	ISTD (ppb)
2	9. MTBE	1.82	219681	38743	1.06723	4.62
4	1. Benzene W 20	2.42	207655	31302	2.90484	1.60
6	2. TFT (Int.)	3.08	4454860	958184	1.00000	100.00
10	3. Toluene W 80	4.40	1360766	228119	2.84110	10.75
17	4. Ch-bz	6.53	12030852	2269577	0.00000	0.00
18	5. Et-Bz W 19	6.93	714936	127487	2.42595	6.62
19	6. P/M xylene W 82	7.13	3725311	681884	2.91491	28.69
20	7. O-xylene W 27	7.74	2804415	284785	2.54728	24.71
22	8. BFB (Surr.)	8.52	13414844	2370297	2.77325	108.58
34	10. 3-Br-cl-bz	11.93	19386816	3836499	2.35523	184.77

36-66-014 Bldg 66 UST tank product sample

C:\data\0108\luftb\01g3952\5281.101 -- Channel A GC/FID



C:\data\0108\luftb\01g3952\5281.101 -- Channel B GC/PID



Applied P & Ch Lab
Total Extractable Petroleum Hydrocarbon Analysis by GC-FID
Instrument ID: GC-W, Column: DB-1 (0.32mm x 15m x 0.25 um), 1ul

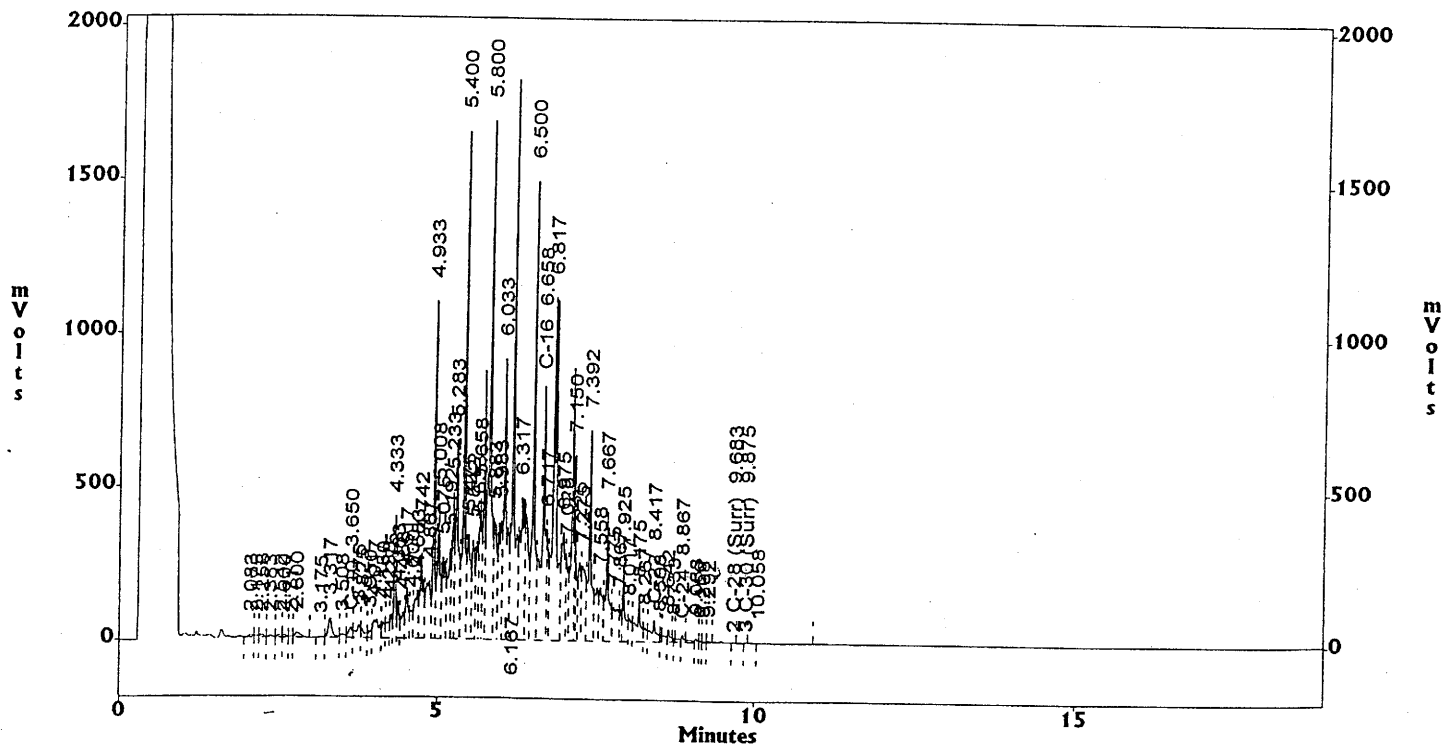
File : c:\data\0108\ds12w\01g3938\5281.001
Method : c:\ezchrom\methods\Dsl2-052.w00
Sample ID : 5281-1 F=200.0
Vial : 40
Volume : 1
Acquired : Aug 17, 2001 08:50:11
Printed : Aug 17, 2001 09:09:10
User : Ying

Channel A Results

Name	Time	Area	AVE RF	Conc (ppm)
C-10	3.65	139747	0.000	0.000
C-16	6.66	3199460	0.000	0.000
C-22	8.42	411584	0.000	0.000
C-24	8.87	66097	0.000	0.000
2 C-28 (Surr)	9.68	2207	14843.776	0.149
3 C-30 (Surr)	9.88	4075	15137.375	0.269
C-36	12.10	0	0.000	0.000
1 Diesel c10-c24		63648268	14899.513	4271.835
4 Motor oil c24-c36		179349	6077.235	29.512
5 JP5 c8-c16		53928140	13135.580	4105.501

36-66-014 , Bldg 66 UST tank product sample

c:\data\0108\ds12w\01g3938\5281.001 -- Channel A GC/FID (extractables)



TANK RINSATE SAMPLING RESULTS

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

The IT Group

Attention: Mike Yurovsky

4005 Port Chicago Highway

Concord CA 94520-1120

Tel: (925) 288-9898 Fax: (925) 288-0888

APCL Analytical Report

Service ID #: 801-015466

Collected by: AW/AJ

Collected on: 08/23/01

Received: 08/24/01

Extracted: 08/27/01

Tested: 08/28-29/01

Reported: 08/31/01

Sample Description: Water from Bldg 66

Project Description: 819850 Treasure Island CTO 36

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-015
				01-05466-1
BTXE				
Dilution Factor				1
BENZENE	8021	µg/L	0.5	0.5J
ETHYLBENZENE	8021	µg/L	0.5	3.0
TOLUENE	8021	µg/L	0.5	2.6
XYLENE (TOTAL)	8021	µg/L	1	14
Dilution Factor				1
DIESEL RANGE ORGANICS	M8015E	mg/L	0.1	4.91

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

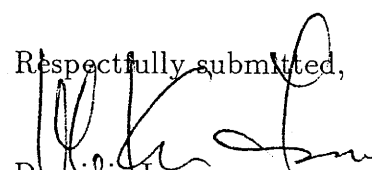
N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,


Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

CHAIN-OF-CUSTODY-RECORDS



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD *

Reference Document No. 548252

Page 1 of 1

Project Name/No. 1 CTO-36/819850

Samples Shipment Date 7 8/9/01

Bill to: 5 DWAYNE FULLER

Sample Team Members 2 AW, AJ, SA

Lab Destination 8 APCL

IT CORP.

Profit Center No. 3

Lab Contact 9 MARK HECKMAN

570 "M" AVENUE

Project Manager 4 DOUG NELSON

Project Contact/Phone 12 MIKE YUROVSKY

TREASURE ISLAND

Purchase Order No. 6

Carrier/Waybill No. 13 GOLDEN STATE

Report to: 10 ROSE CONDOT

Required Report Date 11 24 HRS

#4905012581

SAN FRANCISCO, CA 94130

IT CORP.

4005 PORT CHILCAO HWY.

CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-001	SOIL / BLDG. 66- WEST SIDE C1 BGS	8-9-01 / 0920	80Z GLASS JAR	1 JAR	4°C	TPH-DIESEL & M.O. (8015B)	SAMPLES	
36-66-002	SOIL / BLDG. 66- N.W. CORNER C1 BGS	0945		2 JARS			RECEIVED IN	
36-66-003	SOIL / BLDG. 66- C TOP OF STAIRS C1 BGS	0950		3 JARS		TPH-DIESEL & M.O. (8015B)	GOOD CONDITION	
36-66-004	PAINT CHIPS / BLDG. 66- WOODEN STAIRS C.N.W. CORNER BLDG.	0955		1 JAR		LEAD (6010B/7000)	TEMP = 3.8°C	
36-66-005	SOIL / BLDG. 66- NEAR STAIRWAY C1 BGS	1035		3 JARS		TPH-DIESEL & M.O. (8015B)		
36-66-006	SOIL / BLDG. 66- NEAR WOOD VAULT C1 BGS	1100		1 JAR		LEAD (6010B/7000)		
36-66-007	SOIL /	8-9-01 / 1100	80Z GLASS JAR	1 JAR	4°C	TPH-DIESEL & M.O. (8015B)	5185	
		2J. 8/9/01						

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: ²⁶

Normal ☐ Rush ☐ 24 HOUR T.A.T.

QC Level: ²⁷

I. ☐ II. ☐ III. ☒

Project Specific (specify): _____

1. Relinquished by ²⁸

(Signature/Affiliation)

DOUG NELSON / ITS1

Date: 8/9/01

Time: 1240

1. Received by ²⁸

(Signature/Affiliation)

G.S.

Date: _____

Time: _____

2. Relinquished by

(Signature/Affiliation)

G.S.

Date: _____

Time: _____

2. Received by

(Signature/Affiliation)

[Signature]

Date: 8/10/01

Time: 1900

3. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

3. Received by

(Signature/Affiliation)

Date: _____

Time: _____

Comments: ²⁹ * : EXTRA SOIL COLLECTED FOR AN MS/MSD.

** : SOIL HAS A PETROLEUM HYDROCARBON ODOR.

White: To accompany samples
Yellow: Field copy
* See back of form for special instructions.



INTERNATIONAL
TECHNOLOGY
CORPORATION

BLDG. 66
**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD***

Reference Document No. 548253
Page 1 of 2

Project Name/No. 1 CTD-36/819850
Sample Team Members 2 AW, AJ
Profit Center No. 3
Project Manager 4 DOUG NELSON
Purchase Order No. 6
Required Report Date 11 10 DAYS

Samples Shipment Date 7 8/14/01
Lab Destination 8 APCL
Lab Contact 9 (909) 590-1828 MARK HECKMAN
Project Contact/Phone 12 (415) 217-7930 MIKE YURISKY
Carrier/Waybill No. 13 GOLDEN STATE 490 5022582

Bill to: 5 DWAYNE FULLER
IT CORP.
570 "M" AVENUE
TREASURE ISLAND
SAN FRANCISCO CA 94130
Report to: 10 ROSE CONDT
IT CORP.
4005 PORT CHILCAO HWY.
CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-008	WATER/WASTE-WATER BLDG. 66	8-14-01/1100	802 GLASS JAR	1 JAR	4°C	pH (150.1)		
			1L AMBER BOTTLE	1 BOTTLE	H ₂ SO ₄ /4°C	OIL & GREASE (1664)	FOR LAB USE ONLY Samples Forwarded In Original Condition Temp = 3-2°C	
			1L HDPE BOTTLE	1 BOTTLE	4°C	DISSOLVED SULFIDES (376.2)		
			40 ML VOA	6 VOAS	HCL/4°C	TPH-GAS (8015B) VOCs (8260B)		
			1L AMBER BOTTLE	2 BOTTLES	4°C	TPH-DIESEL & M.O. (8015B)		
			250 ML HDPE	1 BOTTLE	4°C	TSS (160.2)	FOR LAB USE ONLY 5249	
					H ₂ SO ₄ /4°C	COD (410.1)		
36-66-008	WATER/WASTE-WATER BLDG. 66	8-14-01/1100	1L AMBER BOTTLE	1 BOTTLE	H ₂ SO ₄ /4°C	PHENOLS (8041)		

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☒ Archive _____ [mos.]

Turnaround Time Required: ²⁶

Normal ☐ Rush ☐ 10 DAY T.A.T.

QC Level: ²⁷

I. ☐ II. ☐ III. ☒ Project Specific (specify): _____

1. Relinquished by ²⁸
(Signature/Affiliation)

Date: 8/14/01
Time: 1300

1. Received by ²⁸
(Signature/Affiliation)

Date: 8/15/01
Time: 1000

2. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

2. Received by
(Signature/Affiliation)

Date: _____
Time: _____

3. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

3. Received by
(Signature/Affiliation)

Date: _____
Time: _____

Comments: ²⁹ * METALS TO BE ANALYZED FOR: ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL, SILVER, ZINC.

Write: To accompany samples

Yellow: Field copy

* See back of form for special instructions.

Mark Heckman

5150

From: Yurovsky, Michael [Michael.Yurovsky@theitgroup.com]
Sent: Wednesday, August 15, 2001 8:32 AM
To: 'Mark Heckman'
Subject: TI

Hi Mark,

Please, log in an additional analysis for soil sample 36-16-008 (5150-8) -
STLC Lead, 5-day TAT

Thanks,
Michael



BLDG. 66
**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD ***

Reference Document No. 572345
Page 1 of 1

Project Name/No. 1 CTO-36/819850 Samples Shipment Date 7 8/15/01 Bill to: 5 DWAYNE FULLER
Sample Team Members 2 ALI, AJ Lab Destination 8 APCL (909) 590-1828 IT CORP.
Profit Center No. 3 Lab Contact 9 MARK HECKMAN 570 "M" AVENUE
Project Manager 4 DOUG NELSON Project Contact/Phone 12 MIKE YROVSKY (415) 217-7930 TREASURE ISLAND
Purchase Order No. 6 Carrier/Waybill No. 13 GOLDEN STATE Report to: 10 ROSE CONBIT
Required Report Date 11 24 HOURS IT CORP.
4005 POOT CHICAGO HWY.
CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁸	Container Type ¹⁷	Sample Volume ¹⁸	Pre- servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-009	SOIL / BLDG. 66 - N.E. CORNER OF PLAYGROUND	8-15-01 1200	802 GLASS JAR	3 JARS	4°C	TPH-DIESEL & M.O. (BOLSB)		
36-66-010	BLDG. 66 - C.N.W. CORNER C 2 BGS	1215						
36-66-011	BLDG. 66 - NEAR N.W. CORNER C 2 BGS	1225						
36-66-012	BLDG. 66 - 1.5' DOWNSTREAM OF KITCHEN BASIN	1240						
36-66-013	SOIL / WEST SIDE OF BLDG. 66 C 2 BGS	8-15-01 1300			4°C	TPH-DIESEL & M.O. (BOLSB)		

**FOR LAB
USE ONLY**

Temp = 2.9°C

**FOR LAB
USE ONLY**

5279

5350

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☐ Archive ☒ (mos.)

Turnaround Time Required: ²⁶

Normal ☐ Rush ☒ 24 HOURS

QC Level: ²⁷

I. ☐ II. ☐ III. ☒ Project Specific (specify):

1. Relinquished by ²⁸

(Signature/Affiliation)

Date: 8/15/01

Time: 1350

1. Received by ²⁸

(Signature/Affiliation)

Date: 08/16/01

Time: 1000

2. Relinquished by

(Signature/Affiliation)

Date:

Time:

2. Received by

(Signature/Affiliation)

Date:

Time:

3. Relinquished by

(Signature/Affiliation)

Date:

Time:

3. Received by

(Signature/Affiliation)

Date:

Time:

Comments: ²⁹ * SAMPLE DEPTH WAS 1' BGS.



BLDG. 66
**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD ***

Reference Document No. 572346
Page 1 of 1

Project Name/No. ¹ CTO-36/819850 Samples Shipment Date ⁷ 8/15/01 Bill to: ⁵ DWAYNE FULLER
Sample Team Members ² AW, AJ Lab Destination ⁸ APCL IT CORP.
Profit Center No. ³ _____ Lab Contact ⁹ (909) 590-1828 570 "M" AVENUE
Project Manager ⁴ DOUG NELSON Project Contact/Phone ¹² MARK HECKMAN TREASURE ISLAND
Purchase Order No. ⁶ _____ (415) 217-7930 SAN FRANCISCO, CA 94130
Required Report Date ¹¹ 24 HOURS Carrier/Waybill No. ¹³ GOLDEN STATE Report to: ¹⁰ ROSE CONDT
#4905032583 IT CORP.
4005 PORT CHICAGO HWY.
CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-014	LIQUID / FROM UST AT BLDG. 66	8-15-01 / 1305	40mL VOA	1VOA	4°C	FUEL FINGERPRINT (8015B)	SAMPLES RECEIVED IN GOOD CONDITION TEMP = 2.9°C	
NOT USED <i>Refused 8/15/01</i>								

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: ²⁶

Normal ☐ Rush ☒ 24 HR T.A.T.

QC Level: ²⁷

I. ☐ II. ☐ III. ☒ Project Specific (specify): _____

1. Relinquished by ²⁸

(Signature/Affiliation) DOUG NELSON / ITS1

Date: 8/15/01

Time: 1400

1. Received by ²⁸

(Signature/Affiliation) G.S.

Date: _____

Time: _____

2. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

2. Received by

(Signature/Affiliation) Mark Heckman

Date: 8/16/01

Time: 1700

3. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

3. Received by

(Signature/Affiliation)

Date: _____

Time: _____

Comments: ²⁹

White: To accompany samples

Yellow: Field copy

* See back of form for special instructions.



INTERNATIONAL
TECHNOLOGY
CORPORATION

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD ***

Reference Document No. 528553
Page 1 of 2

Project Name/No. CTO-36/819850

Samples Shipment Date 7 9/19/01

Bill to: 5 DWAYNE FULLER

Sample Team Members 2 AW, AJ, CN

Lab Destination 8 APCL

IT CORP.

Profit Center No. 3

Lab Contact 9 MARK HECKMAN

570 "M" AVENUE

Project Manager 4 JOHN BALR

Project Contact/Phone 12 (415) 217-7930

TREASURE ISLAND

Purchase Order No. 6

Carrier/Waybill No. 13 FED. EX. / 8293/3252/38

Report to: 10 ROSE CONDIT

Required Report Date 11 24 HOURS TAT

IT CORP.

4005 PORT CHICAGO HWY.

CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-017	SOIL / BLDG. 66 / 36-66-SB1	9-19-01 / 1500	5 GRAM ENCORE SAMPLER	3 X	4°C	VOCs (8260B)		
↓	↓	↓	8 OZ GLASS JAR	1 JAR	4°C	TPH-DIESEL (8015B)		
36-66-018	SOIL / BLDG. 66 / 36-66-SB1	9-19-01 / 1520	5 gm ENCORE	3 X	4°C	VOCs (8260B)		
↓	↓	↓	8 OZ JAR	1 JAR	4°C	TPH-d (8015B)		
36-66-019	SOIL / BLDG. 66 / 36-66-SB2	9-19-01 / 1645	5 gm ENCORE	3 X	4°C	VOCs (8260B)		
↓	↓	↓	8 OZ JAR	1 JAR	4°C	TPH-D (8015B)		
36-66-020	SOIL / BLDG. 66 / 36-66-SB2	9-19-01 / 1700	5 GM ENCORE	3 X	4°C	VOCs (8260B)		
↓	↓	↓	8 OZ JAR	1 JAR	4°C	TPH-D (8015B)		

FOR LAB USE ONLY

FOR LAB USE ONLY

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: ²⁶

Normal ☐ Rush ☒ 24 HOURS TAT

QC Level: ²⁷

I. ☐ II. ☐ III. ☒

Project Specific (specify): _____

1. Relinquished by ²⁸

(Signature/Affiliation) Art Jensen / ITS1

Date: 9/19/01

Time: 1750

1. Received by ²⁸

(Signature/Affiliation) FEDX

Date: _____

Time: _____

2. Relinquished by

(Signature/Affiliation) FEDX

Date: _____

Time: _____

2. Received by

(Signature/Affiliation) Mark G. Felt

Date: 9/20/01

Time: 940

3. Relinquished by

(Signature/Affiliation)

Date: _____

Time: _____

3. Received by

(Signature/Affiliation)

Date: _____

Time: _____

Comments: ²⁹

Write: To accompany samples

Yellow: Field copy

* See back of form for special instructions.



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 572392

Page 1 of 1

White: To accompany samples

Yellow: Field copy

* See back of form for special instructions.

Project Name/No. ¹ CT036/819850
Sample Team Members ² AW
Profit Center No. ³ _____
Project Manager ⁴ JOHN BAUR
Purchase Order No. ⁶ _____
Required Report Date ¹¹ 3-day TAT

Samples Shipment Date ⁷ 9-26-01
Lab Destination ⁸ APCL
Lab Contact ⁹ MARK HECKMAN 909-590-1828
Project Contact/Phone ¹² MIKE YUROUSKI 415-217-7730
Carrier/Waybill No. ¹³ GOLDEN STATE

Bill to: ⁵ D WAYNE FULLER
IT CORP.
4005 PORTCHICAGO HWY.
CONCORD, CA 94520
Report to: ¹⁰ JOHN BAUR
(see above)

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-022	SOIL/COMPOSITE STOCKPILE	9-26-01 1035	GLASS JARS	2x 90Z.	4°C	TPH-J&MO (8015B) CAM17 METALS (6010B/7000)	SAMPLES RECEIVED IN GOOD CONDITION TEMP = 2.9°C	
<div>FOR LAB USE ONLY</div> <div>FOR LAB USE ONLY</div>								

Special Instructions: ²³Possible Hazard Identification: ²⁴Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒Sample Disposal: ²⁵Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)Turnaround Time Required: ²⁶Normal ☐ Rush ☒ 3-day TATQC Level: ²⁷I. ☐ II. ☐ III. ☒ Project Specific (specify): _____1. Relinquished by ²⁸
(Signature/Affiliation)Alex WongDate: 9-26-01
Time: 11301. Received by ²⁸
(Signature/Affiliation)G.S.Date: _____
Time: _____2. Relinquished by
(Signature/Affiliation)G.S.Date: _____
Time: _____2. Received by
(Signature/Affiliation)Mark H. FellerDate: 9/27/01
Time: 10/33. Relinquished by
(Signature/Affiliation)Date: _____
Time: _____3. Received by
(Signature/Affiliation)Date: _____
Time: _____Comments: ²⁹

APPENDIX C

UST ABANDONMENT DOCUMENTATION

UST Unauthorized Release (Leak)/Contamination Site Report

Application for UST In-place Closure

Conditional UST Closure Approval Letter

IT Letter of Request to Abandon UST

UST Closure/Modification Inspection Record

UST UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 08/16/01		CASE # _____		SIGNED: _____ DATE: 8/16/01	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT DOUG NELSON		PHONE (415) 277-6982		SIGNATURE
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER _____		COMPANY OR AGENCY NAME IT CORPORATION TREASURE ISLAND FIELD OFFICE		
	ADDRESS TREASURE ISLAND BLDG. 570, AVENUE M SAN FRANCISCO CA 94130				
RESPONSIBLE PARTY	NAME NAVY CARETAKER SITE OFFICE, TREASURE ISLAND <input type="checkbox"/> UNKNOWN		CONTACT PERSON MICHAEL MENTINK		PHONE (415) 743-4729
	ADDRESS 410 PALM AVE., BLDG 1, SUITE 161 SAN FRANCISCO, CA 94130				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) BUILDING 66 - YERBA BUENA ISLAND		OPERATOR N/A		PHONE ()
	ADDRESS TREASURE ISLAND CORNER OF FOREST ROAD AND SIGNAL ROAD SAN FRANCISCO CA 94130				
	CROSS STREET FOREST/SIGNAL Yerba Buena Island				
IMPLEMENTING AGENCIES	LOCAL AGENCY SF DEPARTMENT OF ENVIRON. HEALTH		CONTACT PERSON ROSALINDA WEED		PHONE (415) 252-3902
	REGIONAL BOARD SF-RWQCB		CONTACT PERSON SARAH RAKER		PHONE (510) 622-2377
SUBSTANCES INVOLVED	(1) NAME UNKNOWN - POSSIBLE DIESEL FUEL				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2) _____				<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 08/14/01		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER Remedial Excavation		
	DATE DISCHARGE BEGAN _____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input checked="" type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER _____		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____		
CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input checked="" type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input checked="" type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) _____				
COMMENTS	Previously unknown UST discovered during remedial excavation of soil per nuisance criteria behind Building 66, TREASURE YERBA BUENA ISLAND TANK DIMENSIONS: 6' DIAMETER X 10 FT (minimum) TANK CONTENTS - 60% Free product / 40% water PRODUCT SAMPLE COLLECTED 8/15/01 FOR FUEL FINGERPRINT - ANALYTICAL RESULTS PENDING				

APPLICATION FOR UST IN-PLACE CLOSURE

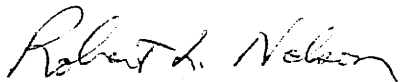
August 28, 2001

Mr. Lester Lum
San Francisco Department of Public Health
Hazardous Materials Unified Program Agency
Environmental Health Section
1390 Market Street, Suite 210
San Francisco, California 94102

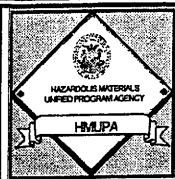
Dear Mr. Lum:

Enclosed please find an application packet and check for the closure in place of an underground storage tank (UST) recently discovered on Yerba Buena Island. In place closure is requested due to the UST's location and the difficulty of removing the UST. If you have any questions please call me at (415) 217-7926 or Ken Leonard at (415) 277-6993.

Sincerely,



Robert L. Nelson
Project Geologist



UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK FACILITY FORM

(one page per site)



TYPE OF ACTION
(Check one item only)

☐ 1. NEW SITE PERMIT

☐ 3. RENEWAL PERMIT

☐ 5. CHANGE OF INFORMATION (Specify change) -

☐ 7. PERMANENTLY CLOSED SITE

☐ 4. AMENDED PERMIT

(local use only) _____
☐ 6. TEMPORARY SITE CLOSURE

☐ 8. TANK REMOVED

400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)

3 FACILITY ID #

1

Navy Caretaker Site Office, Treasure Island

NEAREST CROSS STREET

401

FACILITY OWNER TYPE

☐ 4. LOCAL AGENCY/DISTRICT*

☐ 5. COUNTY AGENCY*

☐ 6. STATE AGENCY*

☒ 7. FEDERAL AGENCY*

403

BUSINESS TYPE

☐ 1. GAS STATION

☐ 3. FARM

☐ 5. COMMERCIAL

☐ 2. DISTRIBUTOR

☐ 4. PROCESSOR

☒ 6. OTHER

☐ 1. CORPORATION

☐ 2. INDIVIDUAL

☐ 3. PARTNERSHIP

TOTAL NUMBER OF TANKS AT SITE

Is facility on Indian Reservation or trustlands?

*If owner of UST a public agency: name of supervisor of division, section or office which operates the UST. (This is the contact person for the tank records.)

406

UN KNOWN

404

☐ Yes

☒ No

405

Michael Mentink

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME

407

PHONE

408

Navy Caretaker Site Office, Treasure Island

(415) 743-4729

MAILING OR STREET ADDRESS

409

410 Palm Ave., Building 1, Suite 161

CITY

410

STATE

411

ZIP CODE

412

San Francisco

CA

94130

PROPERTY OWNER TYPE

☐ 1. CORPORATION

☐ 2. INDIVIDUAL

☐ 4. LOCAL AGENCY / DISTRICT

☐ 6. STATE AGENCY

☐ 3. PARTNERSHIP

☐ 5. COUNTY AGENCY

☒ 7. FEDERAL AGENCY

413

III. TANK OWNER INFORMATION

TANK OWNER NAME

414

PHONE

415

Navy Caretaker Site Office, Treasure Island

(415) 743-4729

MAILING OR STREET ADDRESS

416

410 Palm Ave., Building 1, Suite 161

CITY

417

STATE

418

ZIP CODE

419

San Francisco

CA

94130

TANK OWNER TYPE

☐ 1. CORPORATION

☐ 2. INDIVIDUAL

☐ 4. LOCAL AGENCY / DISTRICT

☐ 6. STATE AGENCY

☐ 3. PARTNERSHIP

☐ 5. COUNTY AGENCY

☒ 7. FEDERAL AGENCY

420

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ

4

4

-

Call (916) 322-9669 if questions arise

421

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(S)

☐ 1. SELF-INSURED

☐ 4. SURETY BOND

☐ 7. STATE FUND

☐ 10. LOCAL GOV'T MECHANISM

☐ 2. GUARANTEE

☐ 5. LETTER OF CREDIT

☐ 8. STATE FUND & CFO LETTER

☒ 99. OTHER: Federal Gov't

☐ 3. INSURANCE

☐ 6. EXEMPTION

☐ 9. STATE FUND & CD

422

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.

☐ 1. FACILITY

☒ 2. PROPERTY OWNER

☐ 3. TANK OWNER

423

VII. APPLICANT SIGNATURE

Certification: I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT

DATE

424

PHONE

425

8/23/2001

(415) 277-6902

NAME OF APPLICANT (print)

426

TITLE OF APPLICANT

427

Doug Nelson



Project Manager / IT Corp.

STATE UST FACILITY NUMBER (For local use only)

428

1998 UPGRADE CERTIFICATE NUMBER (For local use only)

429

	U N I F I E D P R O G R A M C O N S O L I D A T E D F O R M UNDERGROUNDSTORAGETANK FORM PAGE1 <small>(twopagespertank)</small>	
---	--	---

TYPE OF ACTION <small>(Check one item only)</small>	<input type="checkbox"/> 1. NEWSITE PERMIT <input type="checkbox"/> 3. RENEWAL PERMIT	<input type="checkbox"/> 4. AMENDED PERMIT <small>(Specify reason-local use only)</small>	<input type="checkbox"/> 5. CHANGE OF INFORMATION <small>(Specify change-local use only)</small>	<input type="checkbox"/> 6. TEMPORARY SITE CLOSURE <input checked="" type="checkbox"/> 7. PERMANENTLY CLOSED SITE <input type="checkbox"/> 8. TANK REMOVED	Page ____ of ____
--	--	--	---	--	-------------------

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) <u>Navy Caretaker Site Office Treasure Island</u>	FACILITY ID# 1: _____
LOCATION WITHIN SITE (Optional) <u>South Side of building 66, Yerba Buena Island</u>	

TANK ID# 432 <u>#1</u>	TANK MANUFACTURER 433 <u>UNKNOWN</u>	COMPARTMENTALIZED TANK If <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <small>Yes*, complete one page for each compartment.</small>	434
DATE INSTALLED (YEAR/MO) 435 <u>UNKNOWN</u>	TANK CAPACITY IN GALLONS 436 <u>2,000 gallon</u>	NUMBER OF COMPARTMENTS 437 _____	
ADDITIONAL DESCRIPTION (For local use only) 438 <u>Diesel fuel tank used to fire a boiler</u>			

II. TANK CONTENTS			
TANK USE 439 <input type="checkbox"/> 1. MOTOR VEHICLE FUEL <small>(If marked, complete Petroleum Type)</small> <input type="checkbox"/> 2. NON-FUEL PETROLEUM <input type="checkbox"/> 3. CHEMICAL PRODUCT <input type="checkbox"/> 4. HAZARDOUS WASTE <small>(Includes Used Oil)</small> <input type="checkbox"/> 95. UNKNOWN	PETROLEUM TYPE <input type="checkbox"/> 1a. REGULAR UNLEADED <input type="checkbox"/> 2. LEADED <input type="checkbox"/> 1b. PREMIUM UNLEADED <input checked="" type="checkbox"/> 3. DIESEL <input type="checkbox"/> 1c. MID GRADE UNLEADED <input type="checkbox"/> 4. GAS OHOL <input type="checkbox"/> 5. JET FUEL <input type="checkbox"/> 6. AVIATION FUEL <input type="checkbox"/> 99. OTHER _____	COMMON NAME (from Hazardous Materials Inventory page) 441 <u>Diesel fuel</u>	CAS# (from Hazardous Materials Inventory page) 442 _____

III. TANK CONSTRUCTION					
TYPE OF TANK <small>(Check one item only)</small>	<input checked="" type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 2. DOUBLE WALL	<input type="checkbox"/> 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER <input type="checkbox"/> 4. SINGLE WALL IN VAULT	<input type="checkbox"/> 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM 443 <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 99. OTHER _____		
TANK MATERIAL - primary tank <small>(Check one item only)</small>	<input checked="" type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)	<input type="checkbox"/> 5. CONCRETE <input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 95. UNKNOWN 444 <input type="checkbox"/> 99. OTHER _____		
TANK MATERIAL - secondary tank <small>(Check one item only)</small>	<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 2. STAINLESS STEEL	<input type="checkbox"/> 3. FIBERGLASS/PLASTIC <input type="checkbox"/> 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)	<input type="checkbox"/> 8. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 9. FRP NON-CORRODIBLE JACKET <input type="checkbox"/> 10. COATED STEEL <input type="checkbox"/> 95. UNKNOWN 445 <input type="checkbox"/> 99. OTHER _____		
TANK INTERIOR LINING OR COATING <small>(Check one item only)</small>	<input type="checkbox"/> 1. RUBBER LINING <input type="checkbox"/> 2. ALKYD LINING	<input type="checkbox"/> 3. EPOXY LINING <input type="checkbox"/> 4. PHENOLIC LINING	<input type="checkbox"/> 5. GLASS LINING <input checked="" type="checkbox"/> 6. UNLINED <input type="checkbox"/> 95. UNKNOWN 446 <input type="checkbox"/> 99. OTHER _____	DATE INSTALLED 447 _____	
OTHER CORROSION PROTECTION IF APPLICABLE <small>(Check one item only)</small>	<input type="checkbox"/> 1. MANUFACTURED CATHODIC PROTECTION <input type="checkbox"/> 2. SACRIFICIAL ANODE	<input type="checkbox"/> 3. FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 4. IMPRESSED CURRENT	<input checked="" type="checkbox"/> 95. UNKNOWN 448 <input type="checkbox"/> 99. OTHER _____	DATE INSTALLED 449 _____	
SPILL AND OVERFILL <small>(Check all that apply)</small>	<input type="checkbox"/> 1. SPILL CONTAINMENT <input type="checkbox"/> 2. DROPTUBE <input type="checkbox"/> 3. STRIKER PLATE	YEAR INSTALLED 450 _____	TYPE (For local use only) 451 _____	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452 <input type="checkbox"/> 1. ALARM <input type="checkbox"/> 2. BALL FLOAT <input type="checkbox"/> 3. FILL TUBE SHUT OFF VALVE <input type="checkbox"/> 4. EXEMPT	<u>NONE</u>

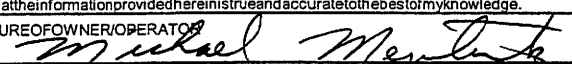
IV. TANK LEAK DETECTION	
IF SINGLE WALL TANK (Check all that apply): <input type="checkbox"/> 1. VISUAL (EXPOSED PORTION ONLY) <input type="checkbox"/> 2. AUTOMATIC TANK GAUGING (ATG) <input type="checkbox"/> 3. CONTINUOUS SATG <input type="checkbox"/> 4. STATISTICAL INVENTORY RECONCILIATION (SIR)+ BIENNIAL TANK TESTING <input type="checkbox"/> 5. MANUAL TANK GAUGING (MTG) <input type="checkbox"/> 6. VADOSE ZONE <input type="checkbox"/> 7. GROUNDWATER <input type="checkbox"/> 8. TANK TESTING <input type="checkbox"/> 99. OTHER <u>NONE</u>	IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only): 454 <input type="checkbox"/> 1. VISUAL (SINGLE WALL IN VAULT ONLY) <input type="checkbox"/> 2. CONTINUOUS INTERSTITIAL MONITORING <input type="checkbox"/> 3. MANUAL MONITORING

V. TANK CLOSURE INFORMATION/PERMANENT CLOSURE IN PLACE		
ESTIMATED DATE LAST USED (YR/MO/DAY) 455 <u>UNKNOWN</u>	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456 <u>0</u> gallons	TANK FILLED WITH INERT MATERIAL? 457 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

UNDERGROUND STORAGE TANK FORM

PAGE 2

(two pages per tank)

VI. PIPING CONSTRUCTION (Check all that apply)			
UNDERGROUND PIPING		ABOVEGROUND PIPING	
SYSTEM TYPE	<input type="checkbox"/> 1. PRESSURE <input checked="" type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY 458	<input type="checkbox"/> 1. PRESSURE <input type="checkbox"/> 2. SUCTION <input type="checkbox"/> 3. GRAVITY 459	
CONSTRUCTION/MANUFACTURER	<input checked="" type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 3. LINED TRENCH <input type="checkbox"/> 99. OTHER 460 <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 95. UNKNOWN 461	<input type="checkbox"/> 1. SINGLE WALL <input type="checkbox"/> 95. UNKNOWN 462 <input type="checkbox"/> 2. DOUBLE WALL <input type="checkbox"/> 99. OTHER 463	
MATERIALS AND CORROSION PROTECTION	<input checked="" type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 6. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 95. UNKNOWN <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 8. FLEXIBLE (HDPE) <input type="checkbox"/> 99. OTHER <input type="checkbox"/> 5. STEEL W/COATING <input type="checkbox"/> 9. CATHODIC PROTECTION 464	<input type="checkbox"/> 1. BARE STEEL <input type="checkbox"/> 6. FRP COMPATIBLE W/100% METHANOL <input type="checkbox"/> 2. STAINLESS STEEL <input type="checkbox"/> 7. GALVANIZED STEEL <input type="checkbox"/> 3. PLASTIC COMPATIBLE WITH CONTENTS <input type="checkbox"/> 8. FLEXIBLE (HDPE) <input type="checkbox"/> 99. OTHER <input type="checkbox"/> 4. FIBERGLASS <input type="checkbox"/> 9. CATHODIC PROTECTION <input type="checkbox"/> 5. STEEL W/COATING <input type="checkbox"/> 95. UNKNOWN 465	
VII. PIPING LEAK DETECTION (Check all that apply)			
UNDERGROUND PIPING SINGLE WALL PIPING 466		ABOVEGROUND PIPING SINGLE WALL PIPING 467	
PRESSURIZED PIPING (Check all that apply) <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTOPUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH)		PRESSURIZED PIPING (Check all that apply) <input type="checkbox"/> 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTOPUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 2. MONTHLY 0.2 GPH TEST <input type="checkbox"/> 3. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 4. DAILY VISUAL CHECK	
CONVENTIONAL SUCTION SYSTEMS <input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)		CONVENTIONAL SUCTION SYSTEMS (Check all that apply) <input type="checkbox"/> 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM <input type="checkbox"/> 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)	
SAFESUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING) <input type="checkbox"/> 7. SELF MONITORING		SAFESUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING) <input type="checkbox"/> 7. SELF MONITORING	
GRAVITY FLOW <input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)		GRAVITY FLOW (Check all that apply) <input type="checkbox"/> 8. DAILY VISUAL MONITORING <input type="checkbox"/> 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	
SECONDARILY CONTAINED PIPING		SECONDARILY CONTAINED PIPING	
PRESSURIZED PIPING (Check all that apply) 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one) <input type="checkbox"/> a. AUTOPUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTOPUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTOPUMP SHUT OFF <input type="checkbox"/> 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF FOR RESTRICTION <input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)		PRESSURIZED PIPING (Check all that apply) 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (check one) <input type="checkbox"/> a. AUTOPUMP SHUT OFF WHEN A LEAK OCCURS <input type="checkbox"/> b. AUTOPUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION <input type="checkbox"/> c. NO AUTOPUMP SHUT OFF <input type="checkbox"/> 11. AUTOMATIC LEAK DETECTOR <input type="checkbox"/> 12. ANNUAL INTEGRITY TEST (0.1 GPH)	
SUCTION/GRAVITY SYSTEM <input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS		SUCTION/GRAVITY SYSTEM <input type="checkbox"/> 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	
EMERGENCY GENERATOR ONLY (Check all that apply) <input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTOPUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF FOR RESTRICTION <input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 17. DAILY VISUAL CHECK		EMERGENCY GENERATOR ONLY (Check all that apply) <input type="checkbox"/> 14. CONTINUOUS SUMP SENSOR WITHOUT AUTOPUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <input type="checkbox"/> 16. ANNUAL INTEGRITY TEST (0.1 GPH) <input type="checkbox"/> 17. DAILY VISUAL CHECK	
VIII. DISPENSER CONTAINMENT			
DISPENSER CONTAINMENT	<input type="checkbox"/> 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE <input type="checkbox"/> 2. CONTINUOUS DISPENSER PANSOR + AUDIBLE AND VISUAL ALARMS <input type="checkbox"/> 3. CONTINUOUS DISPENSER PANSOR WITH AUTOSHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS	<input type="checkbox"/> 4. DAILY VISUAL CHECK <input type="checkbox"/> 5. TRENCH LINER/MONITORING <input checked="" type="checkbox"/> 6. NONE 469	
DATE INSTALLED 468			
IX. OWNER/OPERATOR SIGNATURE			
I certify that the information provided here is true and accurate to the best of my knowledge.			
SIGNATURE OF FOWNER/OPERATOR		DATE	
		8/23/2001 470	
NAME OF FOWNER/OPERATOR (print)		TITLE OF OWNER/OPERATOR	
MICHAEL MENTINK 471		ENVIRONMENTAL COMPLIANCE MANAGER 472	
Permit Number (For local use only) 473	Permit Approved (For local use only)	474	Permit Expiration Date (For local use only) 475



HAZARDOUS MATERIALS UNIFIED PROGRAM AGENCY
UNDERGROUND STORAGE TANK
CLOSURE/MODIFICATION APPLICATION



FOR OFFICE USE	
DATE REC'D	_____
FILE NO. UT00	_____
BUSINESS NO.	_____

1. TANK FACILITY/BUSINESS SITE INFORMATION Attach a State Water Resources Control Board, Underground Storage Tank Facility Form (HMUPA 603) additional tank facility information. PLEASE TYPE OR PRINT CLEARLY

BUSINESS NAME <i>Navy Caretaker Site Office, Treasure Island</i>		BUSINESS OPERATOR/MANAGER NAME _____	
STREET ADDRESS <i>410 Palm Ave Bldg 161</i>	ZIP CODE <i>94103</i>	NEAREST CROSS STREET <i>Signal Forest</i>	PHONE NUMBER <i>(415) 743-4729</i>
TYPE OF BUSINESS <input type="checkbox"/> GAS STATION <input type="checkbox"/> RESIDENCE <input checked="" type="checkbox"/> OTHER (PLEASE SPECIFY) <i>Federal Gov't</i>		SIC CODE <i>9711</i>	US EPA ID NUMBER <i>CA 7170023330</i>

2. DESCRIPTION OF PROPOSED CLOSURE/MODIFICATION Submit a site plan to indicate location of tank(s). Attach a State Water Resources Control Board, UST "Tank Form" (HMUPA 604) for each tank.

TANK NO.	PROPOSED CLOSURE TO UNDERGROUND STORAGE TANK SYSTEM APPLICATION FILING FEE \$573.00	TANK AND/OR PIPE UNDER STREET OR SIDEWALK?	TANK TO BE CUT ON-SITE?
1	<input type="checkbox"/> REMOVE <input checked="" type="checkbox"/> CLOSE IN PLACE* <input type="checkbox"/> TEMPORARY CLOSURE* FOR CLOSURES INVOLVING JUST THE UST SYTEM PIPING, CHECK THE PIPING ONLY BOX IN ADDITION TO THE TYPE OF CLOSURE <input type="checkbox"/> PIPING ONLY	<i>YES NO</i>	<i>NO</i>
	<input type="checkbox"/> REMOVE <input type="checkbox"/> CLOSE IN PLACE* <input type="checkbox"/> TEMPORARY CLOSURE* FOR CLOSURES INVOLVING JUST THE UST SYTEM PIPING, CHECK THE PIPING ONLY BOX IN ADDITION TO THE TYPE OF CLOSURE <input type="checkbox"/> PIPING ONLY		
	<input type="checkbox"/> REMOVE <input type="checkbox"/> CLOSE IN PLACE* <input type="checkbox"/> TEMPORARY CLOSURE* FOR CLOSURES INVOLVING JUST THE UST SYTEM PIPING, CHECK THE PIPING ONLY BOX IN ADDITION TO THE TYPE OF CLOSURE <input type="checkbox"/> PIPING ONLY		
	<input type="checkbox"/> REMOVE <input type="checkbox"/> CLOSE IN PLACE* <input type="checkbox"/> TEMPORARY CLOSURE* FOR CLOSURES INVOLVING JUST THE UST SYTEM PIPING, CHECK THE PIPING ONLY BOX IN ADDITION TO THE TYPE OF CLOSURE <input type="checkbox"/> PIPING ONLY		
TANK NO.	PROPOSED UPGRADE TO UNDERGROUND STORAGE TANK SYSTEM SUBMITTAL FEE \$573.00	TANK AND/OR PIPE UNDER STREET OR SIDEWALK? YES** OR NO	TANK TO BE CUT ON-SITE? YES*** OR NO
	<input type="checkbox"/> REPAIR/LINING <input type="checkbox"/> TANK UPGRADE <input type="checkbox"/> EQUIPMENT INSTALLATION/REPLACEMENT <input type="checkbox"/> PIPING REPAIR <input type="checkbox"/> PIPING UPGRADE <input type="checkbox"/> NEW TANK INSTALLATION <input type="checkbox"/> OTHER _____		
	<input type="checkbox"/> REPAIR/LINING <input type="checkbox"/> TANK UPGRADE <input type="checkbox"/> EQUIPMENT INSTALLATION/REPLACEMENT <input type="checkbox"/> PIPING REPAIR <input type="checkbox"/> PIPING UPGRADE <input type="checkbox"/> NEW TANK INSTALLATION <input type="checkbox"/> OTHER _____		

- * If Closure in Place or Temporary Closure, submit subsurface investigative report; indicate type of material for filling tank *Single sack cement / sand slurry*
- ** If tank or pipe is located under a street or sidewalk, an encroachment permit must be obtained from the Department of Public Works, Bureau of Street-Use and Mapping prior to start of any work.
- *** If tank is to be cleaned and cut on-site, comply with San Francisco Fire Department requirements for on-site cutting. Attach a copy of the Welding and Cutting Permit for open flame torch issued by the San Francisco Fire Department, where applicable.

3. CONTRACTOR/CONSULTANT INFORMATION Contractors performing or subcontracting tank closure must possess a proper contractors license and a valid Hazardous Substance Removal Certification (HAZ/CERT) issued by the Contractors State License Board. Approval for tank work will not be granted unless copies of the contractor's license and certifications are on file with the San Francisco Department of Public Health.

PRIMARY CONTRACTOR/CONSULTANT BUSINESS NAME <i>IT Corporation</i>	CALIF. CONTRACTORS LICENSE CLASSIFICATION AND NO. <i>1347422 AHAZ</i>	PHONE NUMBER <i>(415) 398-6887</i>
MAILING ADDRESS <i>IT Corp, Bldg 570, Avenue M, Treasure Island</i>	CITY <i>San Francisco</i>	STATE <i>CA</i>
		ZIP CODE <i>94130</i>

4. SUBCONTRACTOR/CONSULTANT INFORMATION List all applicable excavation, equipment, tank cleaning or other subcontractors. Attach a separate sheet for additional subcontractors or consultants.

SUBCONTRACTOR/CONSULTANT BUSINESS NAME	CALIF. CONTRACTORS LICENSE CLASSIFICATION AND NO.	PHONE NUMBER ()
MAILING ADDRESS	CITY	STATE
		ZIP CODE

5. HAZARDOUS WASTE INFORMATION Indicate where tank(s) will be taken for disposal and the name of the company transporting the tanks. All hazardous waste including tanks must comply with applicable hazardous waste regulations for transportation, treatment and disposal. An *Uniform Hazardous Waste Manifest* completed by the Generator must accompany all generated hazardous waste during transportation. Attach separate sheet for additional hazardous waste or contaminated materials generated by the tank closure. Copies of the Hazardous Waste Manifest or other transportation documents shall be submitted as part of the final tank closure report.

TANK TRANSPORTATION COMPANY NAME <i>Evergreen Environmental Services</i>	US EPA ID NUMBER <i>CAD982413262</i>	PHONE NUMBER <i>(510) 795-4400</i>
MAILING ADDRESS <i>6880 Smith Ave.</i>	CITY <i>Newark</i>	STATE <i>CA</i> ZIP CODE <i>94560</i>
DESIGNATED (TREATMENT/DISPOSAL) FACILITY NAME <i>Evergreen Environmental Services</i>	US EPA ID NUMBER <i>CAD980887418</i>	PHONE NUMBER <i>(510) 795-4400</i>
DESIGNATED FACILITY ADDRESS <i>6880 Smith Ave</i>	CITY <i>Newark</i>	STATE <i>CA</i> ZIP CODE <i>94560</i>

6. LABORATORY INFORMATION Soil and groundwater sampling, sample management and analyses must be conducted in accordance with procedures specified in CCR Title 22, Section 66261.20(c). Sample splits must be made available to the San Francisco Department of Public Health upon request. All samples which are to be analyzed must be submitted with a properly completed chain-of-custody form to a state certified laboratory. Copies of laboratory results and chain-of-custody forms shall be submitted as part of the final tank closure report.

LABORATORY NAME	STATE CERTIFICATE NO.	PHONE NUMBER ()
BUSINESS ADDRESS	CITY	STATE ZIP CODE

7. APPLICANT INFORMATION Tank closure approval will be sent to the applicant unless otherwise specified.


APPLICANT NAME <i>Doug Nelson</i>	TITLE <i>Project Mgr.</i>	PHONE NUMBER <i>(415) 398-6887</i>
BUSINESS NAME <i>IT Corp</i>	BUSINESS ADDRESS <i>Building 570, Ave. M, Treasure Island, S.F.</i>	
MAILING ADDRESS <i>Building 570, Avenue M, Treasure Island</i>	CITY <i>San Francisco</i>	STATE <i>CA</i> ZIP CODE <i>9463</i>
TANK SITE CONTACT PERSON	TITLE	PHONE NUMBER <i>(415) 398-6887</i>

8. BILLING INFORMATION If different from applicant. Additional or special invoice will be sent to the applicant unless otherwise specified.

BILLING NAME/BUSINESS	CARE OF ADDRESS/CONTACT PERSON	PHONE NUMBER ()
MAILING ADDRESS	CITY	STATE ZIP CODE

In signing this application the applicant declares:

- That the above information is complete and accurate. Any deviation from the approved plan without prior approval from the San Francisco Department of Public Health may result in the revocation of the approval and an assessment of fines and penalties.
- That I have read the San Francisco Department of Public Health's guidelines and that such guidelines do not relieve my obligation to comply with other pertinent State and Federal laws and regulations.
- That I will contact the San Francisco Department of Public Health, Hazardous Materials Unified Program Agency, and where required, San Francisco Fire Department, Department of Public Works or Port Authority, a minimum of 3 (three) working days in advance to schedule inspection appointments.
- Documents relating to tank closure must be submitted within 90 (ninety) days of removing/closing an underground storage tank.. All other tank modification, installation, and/or upgrades documents or reports must be submitted within 30 (thirty) days of project completion. Refer to San Francisco Department of Public Health guidelines for specific reporting requirements.
- That in the event an unauthorized release (leak) is detected and confirmed, the business, tank, or property owner, or I, on behalf of the business, tank, or property owner will notify the San Francisco Department of Public Health within 24 (twenty-four) hours. In addition, an *Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report* shall be completed and submitted to the San Francisco Department of Public Health within 5 (five) days.
- That additional San Francisco Department of Public Health inspection charges will be paid in full immediately upon receipt of the invoice.

APPLICANT'S SIGNATURE 	DATE <i>8/23/2001</i>
--	--------------------------

CONDITIONAL UST CLOSURE APPROVAL LETTER



UNDERGROUND STORAGE TANK CLOSURE APPROVAL

Doug Nelson
IT Corporation
Building 570, Avenue M, Treasure Island
San Francisco, CA 94130

Approval Date: September 5, 2001

Closure File No.: UTOO4186

**Closure approval letter revised to
reflect correction to site address.**

Underground tank site:

Naval Station Treasure Island
Building 66, Yerba Buena Island
San Francisco, CA

IT Corporation is hereby granted approval to close in place 1 underground storage tank(s). This approval is valid for ninety, 90, days from the date as noted above. Prior to commencement of work the Hazardous Materials Program of the Department of Public Health, and where necessary, the Department of Public Works must be notified. Appointments for inspections by the Department of Public Health must be scheduled a minimum of three working days in advance and are subject to the availability of inspectors. Routine appointments are conducted Tues.-Thurs.; 8AM-4PM. Please schedule appointments by calling (415) 252.3917 between the hours of 8:30-9:30 AM or 4-5:30 PM, Monday thru Friday.

Inspections in excess of three hours and/or inspections conducted outside of normal business hours (Mon. - Fri.; 8AM-5PM) will be charged accordingly and must be paid by the applicant upon receipt of invoice. Failure to complete the stated work within the ninety (90) days will result in the expiration of the approval and the forfeiture of the application fee. Applicant shall submit an additional application fee to reinstate the underground storage tank closure approval.

In granting this approval, the applicant agrees to abide by the underground storage tank regulations of the Department of Public Health. Any deviation from the regulations may result in the immediate revocation of the approval. In addition, the applicant may be subject to civil fines and penalties.

A handwritten signature in black ink that reads "Sue Cone".

Sue Cone, Program Manager
Hazardous Materials Unified Program Agency
Bureau of Environmental Health Management

IT LETTER OF REQUEST TO ABANDON UST



September 14, 2001

IT Corporation
4005 Port Chicago Highway
Concord, CA 94520-1120
Tel. 925.288.9898
Fax. 925.288.0888

A Member of The IT Group

Mr. Jim Tang
City and County of San Francisco
Department of Public Health
Hazardous Materials Unified Program Agency
Bureau of Environmental Health Management
1390 Market Street, Suite 210
San Francisco, CA 94102

Subject: Permit to Abandon-in-Place UST at Building 66, Yerba Buena Island
Closure File No.: UTOO4186

Dear Mr. Tang:

On August 13, 2001, a remedial excavation was initiated at the Building 66 site to remove petroleum hydrocarbon impacted surface soils per nuisance criteria. This work was conducted by IT Corporation (IT) as part of the Navy's Petroleum Excavation Program at Naval Station Treasure Island. The objective of the excavation work plan was the removal of petroleum stained soil around the western margin of the building to a depth of 2 feet below ground surface (bgs). In addition, the work plan called for the removal of a wooden vault structure near the southwest corner of Building 66.

During removal of the wooden vault, a previously unknown (undocumented) UST was discovered in the excavation. The site crew, digging by hand due to limited access behind the building, struck a buried object and reported free product flowing into the excavation. The area was uncovered to expose the leak, which was immediately plugged and then patched with quick-setting concrete. When digging resumed in this area the following day, it became apparent that the buried object was an underground storage tank (UST). An interface probe was used to measure 3.5 feet of product and approximately 2.0 feet of water inside the tank. A product sample was collected from inside the tank and analyzed for fuel fingerprint. The laboratory results characterized the product as diesel fuel.

Estimated tank dimensions: 5 feet diameter by 15 feet long, or approximately 2,000-gallon capacity. An Unauthorized Release Report documenting the UST discovery was submitted to the San Francisco Department of Public Health on August 16, 2001.

Product Removal/Tank Cleaning:

On August 23, 2001, the contents of the UST were removed by vacuum truck and transported offsite for recycling or disposal. The UST was triple-rinsed using a pressure washer and the rinsate was also collected by vacuum truck for disposal. The field crew that performed the pressure washing reported seeing several holes up to 1/4-inch in diameter in the sides and bottom

Mr. Jim Tang

2

September 14, 2001

of the tank. The final rinsate was sampled and analyzed for TPH-diesel (EPA Method M8015E) and BTEX (EPA Method 8021) to document the effectiveness of the procedure.

Preliminary analytical results for the final rinsate sample were as follows:

TPH-diesel: 4.91 milligrams per liter (mg/L)
Benzene: 0.5 micrograms per liter (µg/L)
Toluene: 2.6 µg/L
Ethylbenzene: 3.0 µg/L
Xylenes: 14 µg/L

Request for Abandonment-in-Place:

The estimated 2,000-gallon diesel fuel UST discovered in the excavation is located underneath a concrete structure/retaining wall that served as the foundation for a former AST previously located behind Building 66. About half of the tank lies directly beneath the concrete structure. The area where the former AST once stood is now the location of an active natural gas pipeline and manifold that currently fuels the boilers inside Building 66. The concrete AST foundation, natural gas lines and an adjoining concrete blow-off sump (currently inactive) would need to be removed to facilitate any UST removal if such action were deemed necessary. In addition, the steepness of the hillside behind the building raises potential slope stability issues that would need to be addressed in order to conduct an UST removal. The site configuration is shown in plan and cross sectional views on the attached drawings.

Due to the location of the UST and the associated difficulty of access, it is proposed that the tank be abandoned in place. A limited amount of TPH-impacted soil has been removed from the area directly above the tank. However, further removal of soil in this area is impractical due to access limitations imposed by the existing infrastructure and the steep hillside slopes. We do not believe that demolition and reconstruction of the existing infrastructure, and the significant re-grading and slope stabilization (shoring of the building) that would be required to continue to excavate in this area, are warranted. The tank has been emptied and is no longer a contaminant source. Also, residual soil contamination underneath and surrounding the tank is likely to have been limited by the relatively shallow depth to bedrock in this area.

A permit to abandon in place was submitted to the San Francisco Department of Public Health, Hazardous Materials Unified Program Agency (DPH-HMUPA) for review and approval on August 28, 2001. A conditional approval was granted on September 5, 2001. The Department of Public Health has been contacted to arrange for an inspector to be present.

The abandonment in place is currently scheduled for Tuesday, September 18, 2001 at 9:30 am. The tank will be checked with an LEL/O₂ meter to ensure that the atmosphere inside the tank does not present an explosion hazard. If necessary, the tank content will be made inert using dry ice (CO₂) until an LEL reading of less than 10% is obtained. Upon the verbal approval of the DPH-HMUPA site inspector, the tank will then be completely filled with a sand/cement slurry.

Mr. Jim Tang

3

September 14, 2001

Proposed Soil Sampling:

Three soil borings are proposed to investigate subsurface conditions in the vicinity of the Building 66 UST. Soil borings will be drilled using a limited access hydraulic drill rig at three locations around the western perimeter of Building 66. One soil boring will be drilled immediately adjacent to the UST, one along the western side of the building where TPH-diesel concentrations were noted at 3 ft bgs, and one boring will be drilled on the north side of Building 66 near the northwest corner. Proposed soil boring locations are shown on the attached site map.

The borings will be drilled to total depths of approximately 10 to 15 ft bgs, or until bedrock is encountered. Samples will be collected at a depth even with the bottom of the tank (approximately 5.5 to 6 feet bgs), at approximately 5 feet below the tank bottom, and from just above bedrock (if encountered). Grab groundwater samples may be collected by using a Hydropunch® or similar sampling device if water is encountered in the borings. All soil and groundwater samples collected will be analyzed for TPH-diesel and BTEX. Soil boring activities are tentatively scheduled to begin on September 24, 2001.

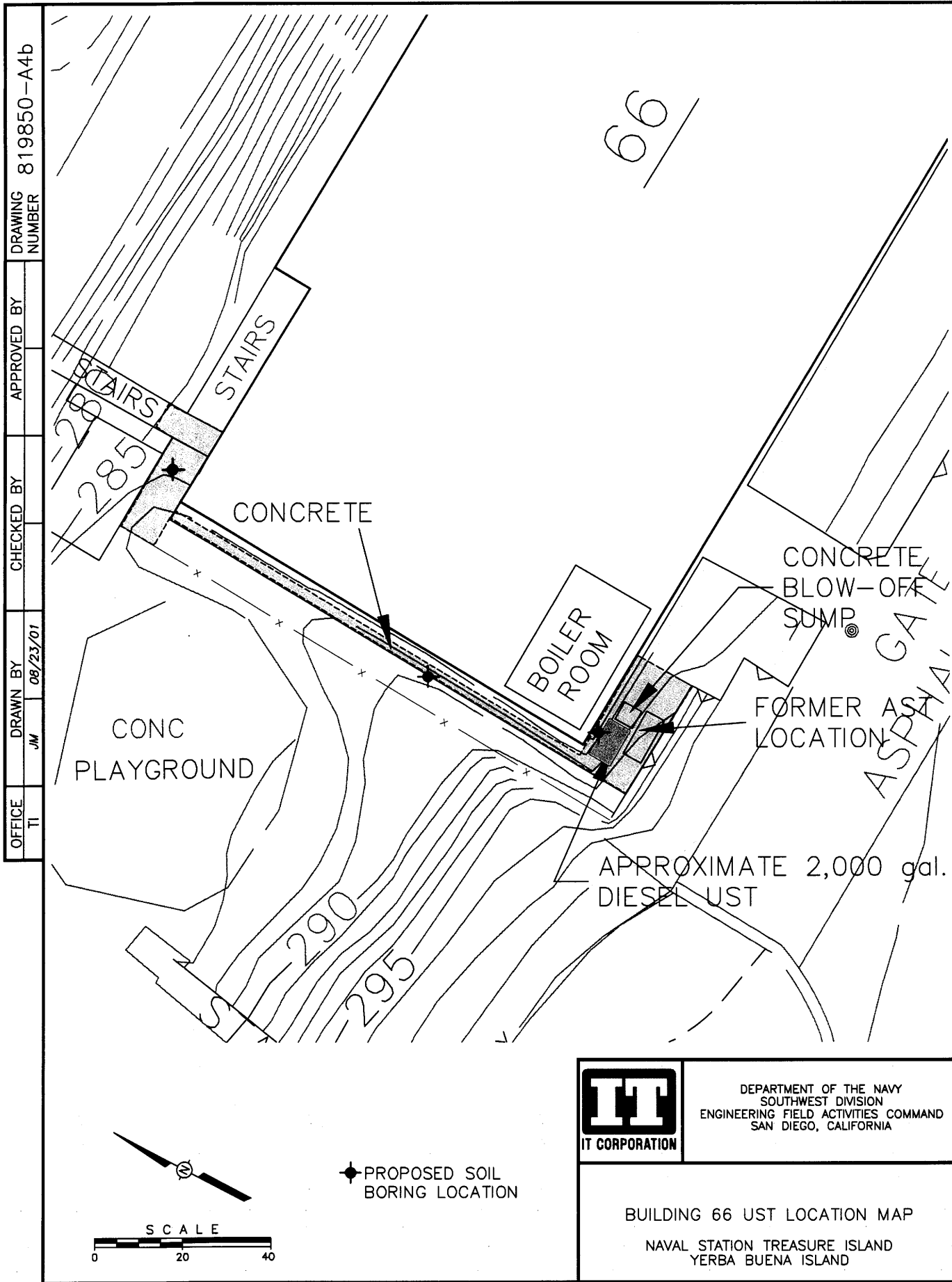
Please do not hesitate to contact me with any questions or comments you may have regarding the above proposed activities. I can be reached at (415) 277-6982. You may also contact Ken Leonard, the project Technical Lead, at (415) 277-6993 with any questions or comments.

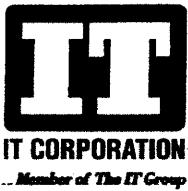
Sincerely,
IT CORPORATION



Doug Nelson
Project Manager
CTO 0036

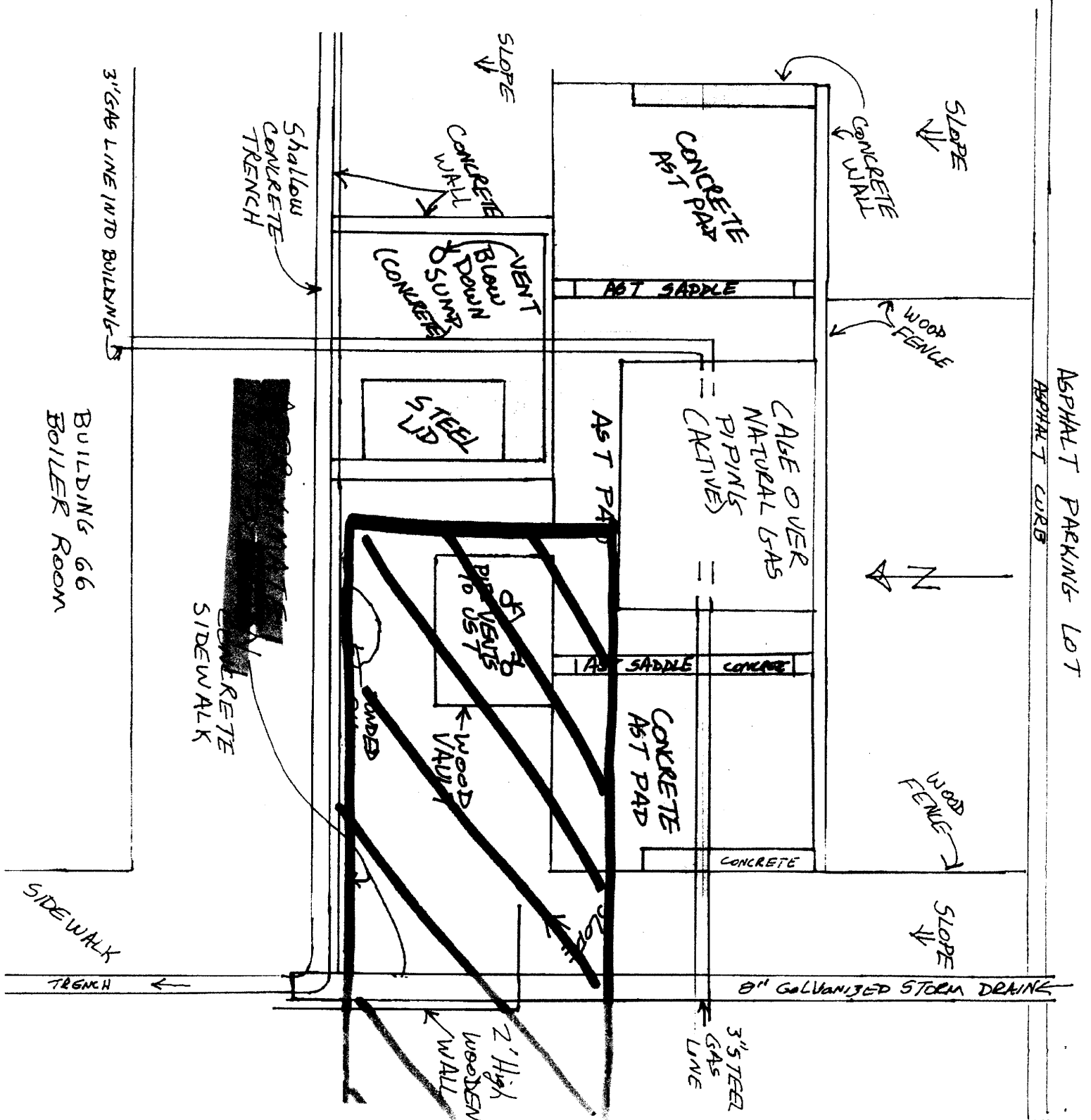
cc: Project File





By Rob Nelson Date 8/23/01 Subject PLAN VIEW OF BUILDING 66 UST Sheet No. 1 of 2
Chkd. By SCALE 1"=3' Proj. No. _____

25 in. X 25 in.





IT CORPORATION

A Member of The IT Group

Rob Nelson

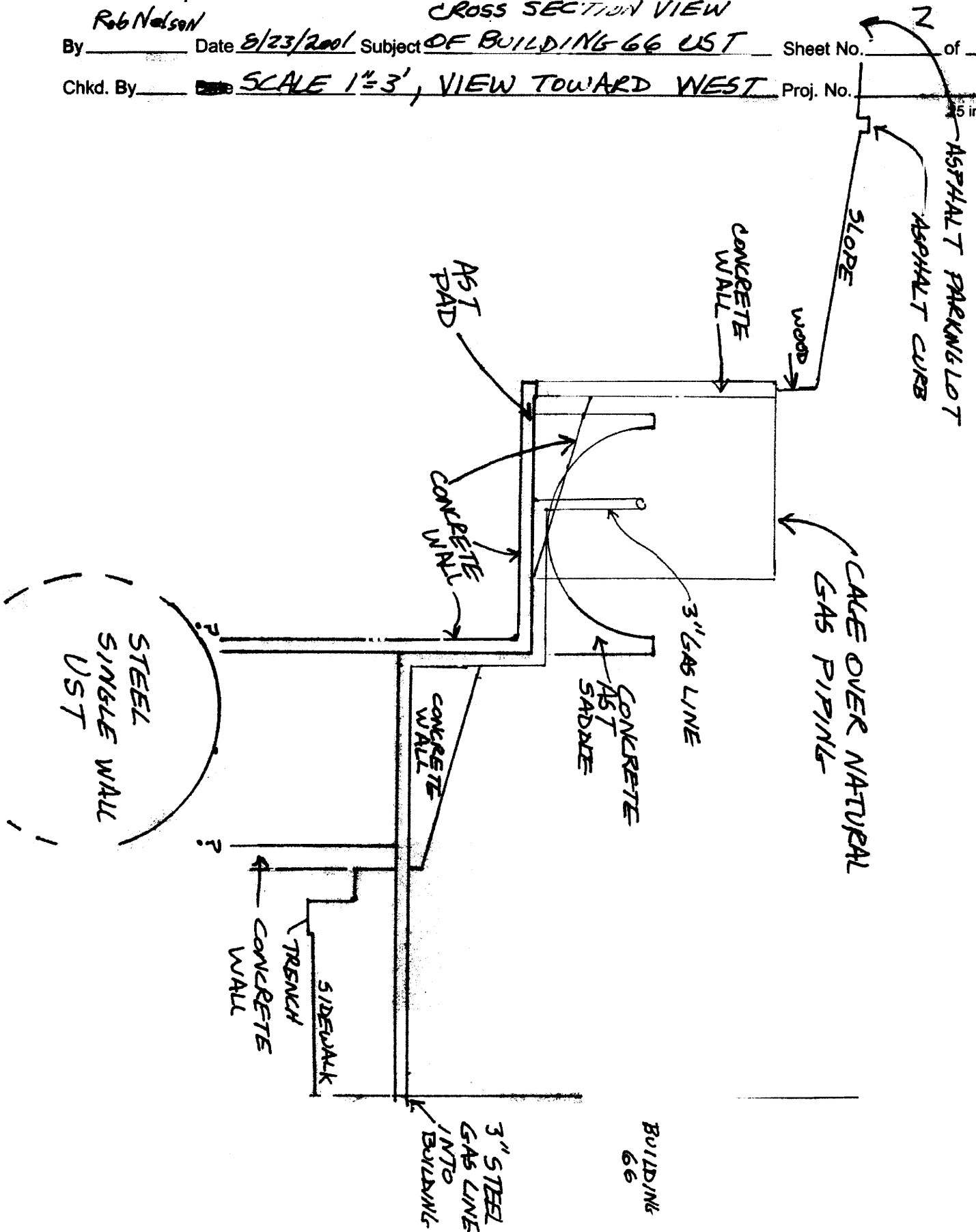
CROSS SECTION VIEW

By _____ Date 8/23/2001 Subject OF BUILDING 66 UST

Sheet No. 2 of 2

Chkd. By _____ SCALE 1"=3', VIEW TOWARD WEST

Proj. No. _____ 5 in. X .25 in.





IT Corporation
A Member of The IT Group

F A C S I M I L E

TREASURE ISLAND PROJECT (CTO 6)
Bldg 570, Avenue M
Treasure Island
San Francisco, CA 94130
Phone: (415) 398-6887
Fax: (415) 398-6879

To: Jin Tang From: Ken Leonard
Fax Number: (415) 252-3910 Page 1 of: 2 Date: 9/14/01
Remarks:

Analytical results for Rinse sample -

BLDG 66 UST, YERBA BUENA ISLAND

Tank Rinsate water (Building 66)

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
The IT Group
Attention: Mike Yurovsky
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)288-0888

Service ID #: 801-015466
Collected by: AW/AJ
Collected on: 08/23/01
Sample Description: Water from Bldg 66
Project Description: 819850 Treasure Island CTO 36

Received: 08/24/01
Extracted: 08/27/01
Tested: 08/28-29/01
Reported: 08/31/01

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-015
				01-05466-1
BTXE				
Dilution Factor				1
BENZENE	8021	μg/L	0.5	0.5J
ETHYLBENZENE	8021	μg/L	0.5	3.0
TOLUENE	8021	μg/L	0.5	2.6
XYLENE (TOTAL)	8021	μg/L	1	14
Dilution Factor				1
DIESEL RANGE ORGANICS	M8015E	mg/L	0.1	4.91

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

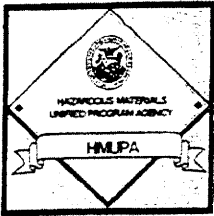
J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

UST CLOSURE/MODIFICATION INSPECTION RECORD



CITY AND COUNTY OF SAN FRANCISCO
DEPARTMENT OF PUBLIC HEALTH
HAZARDOUS MATERIALS UNIFIED PROGRAM AGENCY
UST CLOSURE/MODIFICATION INSPECTION RECORD



REQUESTS FOR INSPECTIONS ARE TAKEN ONLY DURING THE HOURS OF 8:30 AM TO 9:00 AM AND 4:00 PM TO 5:00 PM BY CALLING (415) 252.3917. APPOINTMENTS MUST BE SCHEDULED A MINIMUM 72 HOURS (THREE BUSINESS DAYS) IN ADVANCE AND ARE SUBJECT TO THE AVAILABILITY OF INSPECTORS.

Application No: <u>4156</u>	Date issued: <u>05 Sept 2007</u>
Job Address: <u>BLD-66 410 Palmdale, Treasure Island</u>	Block: _____ Lot: _____
Nature of work: <u>YERBA BUENA Island</u>	
<input type="checkbox"/> UST removal <input checked="" type="checkbox"/> UST Closure in place <input type="checkbox"/> Temporary closure <input type="checkbox"/> Piping removal	
<input type="checkbox"/> Piping/tank upgrade <input type="checkbox"/> Tank installation <input type="checkbox"/> Repair/lining <input type="checkbox"/> Equipment upgrade/replacement	
<input type="checkbox"/> Other: _____	

Description of Work		
Inspection	Date	Inspector
<u>Granting</u>	<u>10/1/07</u>	<u>Jim Tully</u>
Final Inspection		

Approvals		
	Date	Inspector
<input checked="" type="checkbox"/> Closure in place approval	<u>10/1/07</u>	<u>Jim Tully</u>
<input type="checkbox"/> Temporary Fill Port Tags		
<input type="checkbox"/> Temporary UST Certificate of Compliance		
<input type="checkbox"/> Fill Port Tags		
<input type="checkbox"/> UST Certificate of Compliance		

This card shall be on the job site at all times when work is in progress. After completion of work, retain this card for your records and submit a copy to the Department of Public Health along with other required documentation.



October 26, 2001

IT Corporation

4005 Port Chicago Highway
Concord, CA 94520-1120
Tel. 925.288.9898
Fax. 925.288.0888

A Member of The IT Group

City and County of San Francisco
Department of Public Health
Hazardous Materials Unified Program Agency
Bureau of Environmental Health Management
Attention: Mr. Jin Tang, Environmental Health Inspector
1390 Market Street, Suite 210
San Francisco, CA 94102

Subject: Notice of completion of the UST Closure in-place at Building 66, Yerba Buena
Island, Closure File No.: UTOO4186

Dear Mr. Tang:

This letter is to notify you that the closure in-place of the UST at Building 66, Yerba Buena Island has been completed on October 1, 2001. A copy of the Inspection Notice is attached. We are in the process of preparing the final report, which will include details of the UST closure in place activities and results of soil sampling. A copy of the report will be provided to you upon completion. If you have further question please contact IT's technical manager Ken Leonard at (415) 277-6993.

Sincerely,
IT Corporation

A handwritten signature in dark ink, appearing to read 'DN' or similar initials, written over a light background.

Doug Nelson
Treasure Island Project Manager

Enclosures:

cc: Project File
Ken Leonard, IT Treasure Island

APPENDIX D SOIL BORING LOGS



INTERNATIONAL
TECHNOLOGY
CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>319850</u>	PROJECT NAME: <u>CTO-36</u>		
BORING NUMBER: <u>36-66-SB1</u>	COORDINATES:	DATE: <u>9/19/01</u>	
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: <u>9/19/01</u>	
ENGINEER/GEOLOGIST: <u>A. JENSEN</u>	Depth Date/Time	DATE COMPLETED: <u>9/19/01</u>	
DRILLING METHODS: <u>DIRECT PUSH</u>	PAGE <u>1</u>		OF <u>1</u>

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
5				CONCRETE CORE 3-4" SAND, YELLOW-TAN, V. FN. GR., COMPACTED FILL, DAMP, DENSE	SM SC			
10		017						
		018						
				TERMINATED @ 9.5' REFUSAL @ 1505 (9-19-01)				

NOTES:

Drilling Contractor PRECISION SAMPLING

Drilling Equipment DA-11

Driller: J. J. J.



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>819250</u>	PROJECT NAME: <u>CTD-36</u>		
BORING NUMBER: <u>36-60-01</u>	COORDINATES:		DATE: <u>9/19/01</u>
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>9/19/01</u>
ENGINEER/GEOLOGIST: <u>A. JENKIN</u>	Depth	Date/Time	DATE COMPLETED: <u>9/19/01</u>
DRILLING METHODS: <u>DIRECT PUSH</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
5				CONCRETE 3-4" SAND, YELLOW-TAN, V. FN. GR., COMPACTED, W. RNDLED., ENGINEERED FILL	SM- SC			
10		019 020 & 021		TERMINATE @ 10' FGS @ 1705 (9-19-01)				

NOTES:

Drilling Contractor PRECISION SAMPLING

Drilling Equipment DA-11

Driller: JOSE



INTERNATIONAL
TECHNOLOGY
CORPORATION

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD***

Reference Document No 28553
Page 1 of 2

Project Name/No. 1 CTO-36/819850
Sample Team Members 2 AW, AJ, CN
Profit Center No. 3
Project Manager 4 JOHN BALK
Purchase Order No. 6
Required Report Date 11 24 HOURS TAT

Samples Shipment Date 7 9/19/01
Lab Destination 8 APCL
Lab Contact 9 (709) 590-1828
MARK HECKMAN
(415) 217-7930
Project Contact/Phone 12 MIKE YUROVSKY
Carrier/Waybill No. 13 FED. EX. / 8293/3252/38

Bill to: 5 DWAYNE FULLER
IT CORP.
570 "M" AVENUE
TREASURE ISLAND
SAN FRANCISCO, CA 94130
Report to: 10 ROSE CONDIT
IT CORP.
4005 PORT CHICAGO HWY.
CONCORD, CA 94520

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
36-66-017	SOIL / BLDG. 66 / 36-66-SB1	9-19-01 / 1500	5 GRAM ENCORE SAMPLER	3 X	4°C	VOCs (8260B)		
↓ ↓	↓ ↓	↓ ↓	802 GLASS JAR	1 JAR	4°C	TPH-DIESEL (8015B)	SAMPLES RECEIVED	
36-66-018	SOIL / BLDG. 66 / 36-66-SB1	9-19-01 / 1520	5 gm ENCORE	3 X	4°C	VOCs (8260B)	IN GOOD	
↓ ↓	↓ ↓	9-19-01	802 JAR	1 JAR	4°C	TPH-d (8015B)	CONDITION	
36-66-019	SOIL / BLDG. 66 / 36-66-SB2	9-19-01 / 1645	5 gm ENCORE	3 X	4°C	VOCs (8260B)	TEMP 22/0C	
↓ ↓	↓ ↓	9-19-01	802 JAR	1 JAR	4°C	TPH-D (8015B)	FOR LAB USE ONLY	
36-66-020	SOIL / BLDG. 66 / 36-66-SB2	9-19-01 / 1700	5 gm ENCORE	3 X	4°C	VOCs (8260B)		
↓ ↓	↓ ↓	9-19-01	802 JAR	1 JAR	4°C	TPH-D (8015B)		

Special Instructions: ²³

Possible Hazard Identification: ²⁴

Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: ²⁵

Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: ²⁶

Normal ☐ Rush ☒ 24 HOURS TAT

QC Level: ²⁷

I. ☐ II. ☐ III. ☒ Project Specific (specify): _____

1. Relinquished by ²⁸
(Signature/Affiliation)

Date: 9/19/01
Time: 1750

1. Received by ²⁸
(Signature/Affiliation)

Date: _____
Time: _____

2. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

2. Received by
(Signature/Affiliation)

Date: 9/20/01
Time: 940

3. Relinquished by
(Signature/Affiliation)

Date: _____
Time: _____

3. Received by
(Signature/Affiliation)

Date: _____
Time: _____

Comments: ²⁹

Write: To accompany samples

Yellow: Field copy

* See back of form for special instructions.



**ANALYSIS REG ST AND
CHAIN OF CUSTODY RECORD (cont.)***

Reference Document No.^{3c} 28553
Page 2 of 2

Project Name CTO-36

Project No. 819850

Samples Shipment Date 9/19/01

ONE CONTAINER PER LINE

Sample 14 Number	Sample 15 Description/Type	Date/Time 16 Collected	Container 17 Type	Sample 18 Volume	Pre-19 servative	Requested Testing 20 Program	Condition on 21 Receipt	Disposal 22 Record No.
36-66-021	BLDG. 66 SOIL/36-66-SB2	9-19-01 1700	5 GM ENCORE	3K SAMPLERS	4°C	VOCs (8260B)		
↓	↓	9-19-01 1700	802 JAR	1 JAR	4°C	TPH-D (8015B)		
NOT USED a. Jensen 9/19/01							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

White: To accompany samples

Yellow: Field copy

* See back of form for special instructions.

APPENDIX E DATA QUALITY ASSESSMENT

Data Quality Indicators

Analytical data for this project were assessed in terms of precision, accuracy, representativeness and comparability, based on the requirements of the analytical methods and the *Supplemental Field Sampling Plan, Building 66 Remedial Excavation, Naval Station Treasure Island Petroleum Remedial Excavation Program, Treasure Island and Yerba Buena Island, San Francisco, California* published by IT Corporation in August 2001.

The analytical data were reported in the sample delivery groups (SDGs) shown below. The data were validated by Laboratory Data Consultants, Inc. Two SDGs (01-5279 and 01-5350) were validated at U.S. Environmental Protection Agency (EPA) Level III and one SDG (01-5898) at EPA Level IV. The findings of the data validation process are summarized in this section.

Sample Delivery Groups for Building 66

APCL SDG 01-5279	APCL SDG 01-5350	APCL SDG 01-5898
36-66-009	36-66-009 ¹	36-66-017
36-66-010	36-66-010 ¹	36-66-018
36-66-011	36-66-011 ¹	36-66-019
36-66-012	36-66-012 ¹	36-66-020
36-66-013	36-66-013 ¹	36-66-021 (field duplicate of 36-66-020)

¹ Indicates additional analysis

Level III and Level IV Data Validation

The following laboratory quality control (QC) parameters were evaluated during Level III validation process:

- Sample receipt, preservation and holding times (representativeness)
- Method blanks
- Surrogate standard recoveries (accuracy)
- Calibrations (initial and continuing)
- Internal standards (EPA Methods 8270C Selective Ion Monitoring (SIM) and 8260B only)
- Laboratory control spikes (LCSs)/laboratory control spike duplicates (precision and accuracy)
- Matrix spikes (MSs)/matrix spike duplicates (MSDs) (precision and accuracy)

- Interference check samples/serial dilutions (EPA 6010B only)
- Recalculation of sample results from raw laboratory data (Level IV only)

Sample Receipt, Temperature, and Holding Times

All sample shipments were received at the laboratory within the EPA-specified temperature range of 2 to 6 degrees Celsius (°C). Sample preservation was according to the EPA method requirements. All holding times were met for all analyses.

Method Blanks

A method blank is a matrix equivalent sample used to check reagent or process introduced contamination during the method preparation and analysis.

The method blanks did not contain any analytes of interest at or above the method reporting limits for all analyses, with the following exception:

TPH as motor oil (EPA Method 8015B)

TPH as motor oil was detected at a low concentration in the method blank for SDG 01-5279. It was also detected in sample 36-66-009 at a concentration less than five times the associated blank concentration. In this instance, the sample result was reported as not detected (U) at the reported concentration (21 milligrams per kilogram). Data usability was not affected.

Surrogate Standards

Surrogate standards are added prior to extraction and analysis for EPA Methods 8015B, 8260B, and 8270C SIM to monitor the efficiency of the extraction and the accuracy of the analysis for each sample. All of the surrogate spike recoveries were within the laboratory-specified control limits for all samples, with the following exception:

TPH as motor oil (EPA Method 8015B)

Surrogate standard for sample 36-66-013 (SDG 01-5279) was recovered (high bias) outside the required control limits due to matrix interference and presence of a significant amount of petroleum hydrocarbons. TPH as diesel result was qualified as estimated concentration (J) based on the surrogate standard recovery. Data usability was not affected.

Calibrations

The requirements for initial and continuing calibrations were met for all analyses, with the following exceptions:

PAHs (EPA Method 8270C SIM)

The relative standard deviation (RSD) for the following compounds did not meet the method specified criteria (<15 %) in the initial calibration for SDG 01-5350: anthracene, benzo(k)fluoranthene, chrysene, fluorene, 2-methylnaphthalene, naphthalene, and phenantrene. Project sample results (sample 36-66-010) were qualified as estimated concentrations (J/UJ) for all of these analytes based on the initial calibration. Data usability was not affected.

VOCs (EPA Method 8260B)

The percent difference (%D) for 2,2-dichloropropane did not meet the method-specified criteria (<30 %) in the continuing calibration standard for SDG 02-5898. 2,2-Dichloropropane results for all samples in this SDG were qualified as estimated concentrations (UJ) based on the continuing calibration. Data usability was not affected.

Internal Standards

Internal standards are usually synthetic compounds, which are similar in chemical behavior to the target analytes. They are added to samples at the time of instrument analysis and are used to quantify results through internal standard calibration procedures. Internal standard recoveries are used to correct for injection and detector variability. All internal standard areas and retention times for EPA Methods 8270C SIM and 8206B were within the method-specified criteria.

Interference Check Sample and Serial Dilutions

The interference check sample is used to measure the interelement interference for inductively coupled plasma analysis (EPA Method 6010B). It measures the positive or negative bias of the instrument based on high concentrations of known interfering elements. All interference check samples met the method required acceptance criteria.

The serial dilution is used to measure matrix interference, which causes instrument signal suppression. Serial dilution for SDG 01-5350 slightly exceeded the %D limits (10%). All sample results for this SDG were qualified as estimated concentrations (J) based on the serial dilution. Data usability was not affected.

Laboratory Control Samples

Laboratory control samples are blank matrix equivalent spiked samples that are carried through the entire method preparation and analysis. They are used to evaluate the accuracy and precision

of the preparation and analysis without matrix interference. LCSs are prepared with each batch of samples for every analysis. All the LCS recoveries were within the specified control limits for all analyses.

Matrix Spikes and Matrix Spike Duplicates

MSs and MSDs are representative matrix samples spiked with known concentrations of analytes and carried through the entire method preparation and analysis. They are used to evaluate any bias introduced to the method due to matrix interferences, and to measure accuracy (percent recovery) and precision using relative percent difference (RPD) of recoveries for each analytical batch. All percent recoveries and RPDs were within the specified control limits for all MS/MSD analyses.

Field Duplicates

One field duplicate was collected and analyzed throughout the project for the confirmation samples. Field duplicate results indicate acceptable sampling and analytical precision. Results for field duplicates are shown in [Tables 3](#) and [7](#) where original sample and field duplicate are indicated in the notes.

Chemical Data Quality and Usability

In summary, all of the QC data are indicative of acceptable analytical method performance. The anomalies mentioned above do not invalidate the data for its intended use. All of the data are valid and usable for project decisions.

APPENDIX F FINAL INSPECTION REPORT

FINAL INSPECTION REPORT - Site CTO-036 Building 66

CONTRACT NUMBER AND TITLE: 98-D-2076

CONTRACTOR: IT Corporation

DATE OF INSPECTION: 10/15/01

ADDRESS: _____

INSPECTION PARTY

NAME	TITLE	REPRESENTING
<u>Lee Laws</u>	<u>PCQCM</u>	<u>IT Corp</u>
<u>Raymond Spencer</u>	<u>CQC</u>	<u>IT Corp</u>
<u>Bob Perricone</u>	<u>ROICC</u>	<u>US Navy</u>
<u>Peter Stroganoff</u>	<u>ROICC</u>	<u>US Navy</u>

1. THE CONTRACTOR HEREBY ACKNOWLEDGES THE CONSTRUCTION DEFICIENCIES LISTED BELOW AS CONDITIONS OR WORKMANSHIP AND/OR MATERIALS THAT DO NOT COMPLY WITH THE CONTRACT REQUIREMENTS, AND AGREES TO CORRECT SUCH DEFICIENCIES TO MEET CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE GOVERNMENT, ON OR BEFORE _____. THIS IS NOT TO BE CONSTRUED AS A WAIVER OF THE WARRANTY PROVISION(S) OF THE CONTRACT.
2. FINAL ACCEPTANCE IS APPROVED SUBJECT TO CORRECTION OF THE DEFICIENCIES LISTED BELOW:

A. CONSTRUCTION DEFICIENCIES: NONE

B. DESIGN DEFICIENCIES: _____

C. GENERAL COMMENTS: STEEP METAL DRAIN PIPE TO WALL
TO PREVENT HAZARD

SIGNED: _____

CONTRACTOR REPRESENTATIVE

Michael J. [Signature]
USING AGENCY REPRESENTATIVE

[Signature]

ROICC REPRESENTATIVE

RPM - EFA WEST

APPENDIX G
NON-RCRA HAZARDOUS WASTE MANIFESTS
(NON-REGULATED PETROLEUM-CONTAMINATED SOIL)

State of California—Environmental Protection Agency
Form Approved OMB No. 2150-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

20275962

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA7170023580		Manifest Document No.		2. Page 1 of 4		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address ROICC Office S.F. Bay 2450 Saratoga St. Suite #200 Alhambra Point, CA 94501				A. State Manifest Document Number 20275962							
4. Generator's Phone (415) 740-5551				B. State Generator's ID HAEE36040285							
5. Transporter 1 Company Name EnviroBente Transportation, Inc.				6. US EPA ID Number CAD982513632		C. State Transporter's ID (Reserved)					
7. Transporter 2 Company Name JIF Trucking				8. US EPA ID Number CA44049209868		D. Transporter's Phone (707) 838-1407					
9. Designated Facility Name and Site Address Chemical Waste Management, Inc. 35201 Oak Grove Rd. Kellenham City, CA 95238				10. US EPA ID Number CAT000546117		E. State Transporter's ID (Reserved)					
						F. Transporter's Phone 2098693109					
						G. State Facility's ID CAT000646117					
						H. Facility's Phone (559) 386-9711					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total		14. Unit			
1. 999-NORA hazardous waste solid				No. 001 Type DT		Quantity 18		Wt/Vol Y			
2. Lead contaminated soil								I. Waste Number			
								State 611			
								EPA/Other IV			
b.								State			
								EPA/Other			
c.								State			
								EPA/Other			
d.								State			
								EPA/Other			
J. Additional Descriptions for Materials Listed Above				K. Handling Code for Waste Listed Above							
11a. Profile # 4782				03							
Please send a copy of the fully executed manifest, waste ticket and certificate of destination to IT Corporation, 570 Avenue M, San Francisco, CA 94130. Attn: Karen B. Ruffin											
15. Special Handling Instructions and Additional Information Caution: Wear appropriate protective clothing and respiratory protection when handling.											
IN CASE OF EMERGENCY CONTACT: Chem-Tel, Inc. at 1-800-255-3924											
Site pick up address: Naval Station Treasure Island San Francisco, CA											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable International and national government regulations.											
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name				Signature		Month		Day		Year	
				<i>[Signature]</i>		11		10		50	
17. Transporter 1 Acknowledgment of Receipt of Materials				Signature		Month		Day		Year	
Printed/Typed Name FILRY FREITAS				<i>[Signature]</i>		11		10		50	
18. Transporter 2 Acknowledgment of Receipt of Materials				Signature		Month		Day		Year	
Printed/Typed Name											
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Signature		Month		Day		Year	
Printed/Typed Name Copra Ashworth				<i>[Signature]</i>		11		10		50	

DO NOT WRITE BELOW THIS LINE.

32.87

WEIGHT (LB)	TIME	DATE	COMMODITY
13544	11:06-01	03/20/01	HAZARDOUS WASTE
GROSS: 32.87 ton			
DEPUTY WEIGHMASTER			
TARE: 16.97			
NET: 15.90 ton			
YARDAGE:			



CHEMICAL WASTE MANAGEMENT, INC.

WEIGHMASTER weighed at
35251 Old Skyline Road
Kettleman City, CA

NO:

176417

WEIGHMASTER CERTIFICATE

This is to certify that the following described commodity was weighed, measured, or counted by a WEIGHMASTER, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by CHAPTER 7 (commencing with § 12700) of Division 5 of the California Business & Professions Code, administered by the Division of Measurement Standards of California Department of Food and Agriculture.

GENERATOR	MANIFEST	PROFILE NO.
TRACTOR LICENSE NO.	BIN #	RECEIPT #

APPENDIX H REQUEST FOR WASTEWATER DISCHARGE PERMIT

Water Analytical Results



*Treasure Island Bldg. 570 Avenue M
San Francisco, CA. 94130
(415) 398-6887 FAX (415)398-3901*

TO: John Gregson – Bureau of Environmental Regulation and Management

**CC: - Jim Barry-Treasure Island WPCP
Doug Nelson – IT Corporation, Project Manager
Ken Leonard – ITSI, Technical Manager**

FROM: Karen Bluitt-Ruffin

DATE: September 4, 2001

SUBJECT: Request for wastewater discharge permit for Treasure Island Building # 66

IT Corporation (IT) is performing a remedial excavation at CTO# 36, Building #66 which is located on Yerba Buena Island. During the remedial excavation, groundwater was encountered. This water was accumulated in three (3) 55 gallon steel drums. IT is requesting approval to discharge this water into the San Francisco Sewer System at Treasure Island.

The analytical results for the water are attached.

If you have any questions I can be contacted at (415) 277-6989 and my fax number is (415) 398-3901.

Thank you,

A handwritten signature in black ink, appearing to read 'Karen B. Ruffin', written over a horizontal line.

Karen Bluitt-Ruffin

WATER ANALYTICAL RESULTS

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Submitted to:

The IT Group

Attention: Mike Yurovsky

4005 Port Chicago Highway

Concord CA 94520-1120

Tel: (925)288-9898 Fax: (925)288-0888

APCL Analytical Report

Service ID #: 801-015249

Collected by: AW/AJ

Collected on: 08/14/01

Received: 08/15/01

Extracted: 08/17-20/01

Tested: 08/15-29/01

Reported: 08/30/01

Sample Description: Waste Water from Bldg 66

Project Description: 819850 Treasure Island CTO 36

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result 36-66-008 01-05249-1
CHEMICAL OXYGEN DEMAND (COD)	410.4	mg-O ₂ /L	20	43
CYANIDE	335.2	mg/L	0.05	<0.05
SOLIDS, TOTAL SUSPENDED (TSS)	160.2	mg/L	10	48
SULFIDE, DISSOLVED	376.2	mg/L	0.2	<0.2
OIL AND GREASE	1664A	mg/L	5	<5
PRIORITY POLLUTANT METALS (CWA) (13)				
Dilution Factor				1
ARSENIC	6010B	µg/L	5	<5
CADMIUM	6010B	µg/L	2	1.4J
CHROMIUM	6010B	µg/L	5	7.4
COPPER	6010B	µg/L	10	1,550
LEAD	6010B	µg/L	5	140
MERCURY	7470A	µg/L	0.5	<0.5
NICKEL	6010B	µg/L	5	22.7
SILVER	6010B	µg/L	10	<10
ZINC	6010B	µg/L	10	1,590
Dilution Factor				1
GASOLINE RANGE ORGANICS	M8015V	mg/L	0.05	0.02J
Dilution Factor				1
DIESEL RANGE ORGANICS	M8015E	mg/L	0.1	0.57 (a)
Dilution Factor				1
MOTOR OIL RANGE ORGANICS	M8015E	mg/L	0.1	0.47 (a)
VOLATILE ORGANICS				
Dilution Factor				1
BENZENE	8260	µg/L	1	<1
BROMOBENZENE	8260	µg/L	1	<1
BROMOCHLOROMETHANE	8260	µg/L	1	<1
BROMODICHLOROMETHANE	8260	µg/L	1	<1
BROMOFORM	8260	µg/L	1	<1
BROMOMETHANE	8260	µg/L	1	<1
N-BUTYLBENZENE	8260	µg/L	1	<1
SEC-BUTYLBENZENE	8260	µg/L	1	<1
TERT-BUTYLBENZENE	8260	µg/L	1	<1
CARBON TETRACHLORIDE	8260	µg/L	1	<1
CHLOROBENZENE	8260	µg/L	1	<1
DIBROMOCHLOROMETHANE	8260	µg/L	1	<1
CHLOROETHANE	8260	µg/L	1	<1

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result
				36-66-008
				01-05249-1
CHLOROFORM	8260	µg/L	1	<1
CHLOROMETHANE	8260	µg/L	1	<1
2-CHLOROTOLUENE	8260	µg/L	1	<1
4-CHLOROTOLUENE	8260	µg/L	1	<1
1,2-DIBROMO-3-CHLOROPROPANE	8260	µg/L	1	<1
1,2-DIBROMOETHANE (EDB)	8260	µg/L	1	<1
DIBROMOMETHANE	8260	µg/L	1	<1
1,2-DICHLOROBENZENE	8260	µg/L	1	<1
1,3-DICHLOROBENZENE	8260	µg/L	1	<1
1,4-DICHLOROBENZENE	8260	µg/L	1	<1
DICHLORODIFLUOROMETHANE	8260	µg/L	1	<1
1,1-DICHLOROETHANE	8260	µg/L	1	<1
1,2-DICHLOROETHANE	8260	µg/L	1	<1
1,1-DICHLOROETHENE	8260	µg/L	1	<1
CIS-1,2-DICHLOROETHENE	8260	µg/L	1	<1
TRANS-1,2-DICHLOROETHENE	8260	µg/L	1	<1
1,2-DICHLOROPROPANE	8260	µg/L	1	<1
1,3-DICHLOROPROPANE	8260	µg/L	1	<1
2,2-DICHLOROPROPANE	8260	µg/L	1	<1
1,1-DICHLOROPROPENE	8260	µg/L	1	<1
CIS-1,3-DICHLOROPROPENE	8260	µg/L	1	<1
TRANS-1,3-DICHLOROPROPENE	8260	µg/L	1	<1
ETHYLBENZENE	8260	µg/L	1	<1
HEXACHLOROBUTADIENE	8260	µg/L	1	<1
ISOPROPYLBENZENE (CUMENE)	8260	µg/L	1	<1
P-ISOPROPYLTOLUENE	8260	µg/L	1	<1
METHYLENE CHLORIDE	8260	µg/L	1	1J
NAPHTHALENE	8260	µg/L	1	<1
N-PROPYLBENZENE	8260	µg/L	1	<1
STYRENE	8260	µg/L	1	<1
1,1,1,2-TETRACHLOROETHANE	8260	µg/L	1	<1
1,1,2,2-TETRACHLOROETHANE	8260	µg/L	1	<1
TETRACHLOROETHENE	8260	µg/L	1	<1
TOLUENE	8260	µg/L	1	<1
1,2,3-TRICHLOROBENZENE	8260	µg/L	1	<1
1,2,4-TRICHLOROBENZENE	8260	µg/L	1	<1
1,1,1-TRICHLOROETHANE	8260	µg/L	1	<1
1,1,2-TRICHLOROETHANE	8260	µg/L	1	<1
TRICHLOROETHENE	8260	µg/L	1	<1
TRICHLOROFLUOROMETHANE	8260	µg/L	1	<1
1,2,3-TRICHLOROPROPANE	8260	µg/L	1	<1
1,2,4-TRIMETHYLBENZENE	8260	µg/L	1	<1
1,3,5-TRIMETHYLBENZENE	8260	µg/L	1	<1
VINYL CHLORIDE	8260	µg/L	1	<1
XYLENE (TOTAL)	8260	µg/L	1	<1

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-008	01-05249-1
PHENOLS					
Dilution Factor				1	
4-CHLORO-3-METHYLPHENOL	8270	µg/L	10	< 10	
2-CHLOROPHENOL	8270	µg/L	10	< 10	
2,4-DICHLOROPHENOL	8270	µg/L	10	< 10	
2,6-DICHLOROPHENOL	8270	µg/L	10	< 10	
2,4-DIMETHYLPHENOL	8270	µg/L	10	< 10	
4,6-DINITRO-2-METHYLPHENOL	8270	µg/L	50	< 50	
2,4-DINITROPHENOL	8270	µg/L	50	< 50	
4-METHYLPHENOL (P-CRESOL)	8270	µg/L	10	< 10	
2-METHYLPHENOL (O-CRESOL)	8270	µg/L	10	< 10	
2-NITROPHENOL	8270	µg/L	10	< 10	
4-NITROPHENOL	8270	µg/L	50	< 50	
PENTACHLOROPHENOL	8270	µg/L	50	< 50	
PHENOL	8270	µg/L	10	< 10	
2,3,4,6-TETRACHLOROPHENOL	8270	µg/L	10	< 10	
2,4,5-TRICHLOROPHENOL	8270	µg/L	10	< 10	
2,4,6-TRICHLOROPHENOL	8270	µg/L	10	< 10	

Component Analyzed	Method	Unit	PQL	Analysis Result	
				36-66-008	36-WW-05
				01-05249-1	01-05249-2
PH	9040	pH unit	0.1	7.52	7.41

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

N.D.: Not Detected or less than the practical quantitation limit.

"-": Analysis is not required.

J: Reported between PQL and MDL.

Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

(a) Unknown mixture in Diesel/ Motor Oil range.

Respectfully submitted,


Dominic Lau

Laboratory Director

Applied P & Ch Laboratory

APPENDIX I
NON-RCRA HAZARDOUS WASTE MANIFEST AND BILL OF LADING (OILY WATER)

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. YIMIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA717002338080239		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address ROICC Office S.F. Bay 2450 Saratoga St. Suite #200 Alameda Point, CA 94501						A. State Manifest Document Number 20275960							
4. Generator's Phone 510-749-5941 Attn: Peter Stragandoff						B. State Generator's ID NAEF38043235							
5. Transporter 1 Company Name Evergreen Environmental Services						C. State Transporter's ID (Reserved)							
6. US EPA ID Number CAD982413262						D. Transporter's Phone (510) 795-4400							
7. Transporter 2 Company Name						E. State Transporter's ID (Reserved)							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address Evergreen Environmental Services - Evergreen Oil Inc. 6880 Smith Avenue Newark, CA 94580						G. State Facility's ID CA298012874118							
10. US EPA ID Number CAD980887418						H. Facility's Phone 510-795-4400							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Non-HCRA hazardous waste liquid (WASTE OIL & GREASE)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste Number	
						001 TT		2.33 G		G		State EPA/Other	
16. Additional Descriptions for Materials Listed Above Please send a copy of the fully executed manifest, weight ticket & certificate of destruction to IT Corporation, Bldg. 870 Avenue M, San Francisco, CA. 94130 Attn: Karen Ruffin						K. Handling Codes for Wastes Listed Above		a. 01		b.		c.	
17. Special Handling Instructions and Additional Information Caution: Wear appropriate protective clothing and respiratory protection when handling. IN CASE OF EMERGENCY CONTACT: Chem-Tel, Inc. at 1-800-255-3924 Site pick up address: Naval Station Treasure Island San Francisco CA						Irving # 22084 w/o # 96593750							
18. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name PETER STRAGANDOFF						Signature <i>Peter Stragandoff</i>		Month 08		Day 23		Year 01	
17. Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name Ten L Powell						Signature <i>Ten L Powell</i>		Month 08		Day 23		Year 01	
18. Transporter 2 Acknowledgment of Receipt of Materials Printed/Typed Name						Signature		Month		Day		Year	
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18. Printed/Typed Name Pete Thompson													
Signature <i>Pete Thompson</i>						Month 08		Day 23		Year 01			

DO NOT WRITE BELOW THIS LINE.

32084



Evergreen Environmental Services

dedicated to the protection of the environment

To schedule a pickup, call

800-972-5284

Send payment to:

Evergreen

P.O. Box 49065

San Jose, CA 95161-9065

Sales Order # 96593750

Date 8-23-01

 8880 Smith Ave., Newark, CA EPA# CAD982413262
 18540 S. San Pedro St., Carson, CA EPA# CAD982413262

JOB LOCATION CTO #36 Bldg #66

BILLING INFORMATION

NAME R O T C C. San Francisco Bay	NAME I T Corporation	CASH <input type="checkbox"/> CHECK <input type="checkbox"/>
ADDRESS BLD 570 Ave M	ADDRESS 570 Ave M	CUSTOMER CODE NO. ITC020
CITY Treasure Island CA 94120	CITY Treasure Island CA 94120	PO#
PHONE NO. (415) 277-6989	PHONE NO. ()	CUSTOMER EPA ID NO. CA7170023330

PRODUCT	WASTE CODE	MANIFEST NUMBER	QUANTITY	UNITS	PRICE (For Time Of Service Only)	AMOUNT
Used oil, Non-RCRA Hazardous Lubricating	CA 221			Gal		
Waste, Liquid Industrial	CA 221			Gal		
Used Automotive Antifreeze, Non-RCRA Hazardous Waste, Liquid	CA 134			Gal		
EQ Waste Combustible Liquid, N.O.S. NA 1993 III (Oil contaminated with halogens)	CA 221 F001/F002			Gal		
Oil & Water, Non-RCRA Hazardous Waste, Liquid	CA 221	20277860	2468	Gal	95	2344.60
Waste Solids and Sludges			60	Gal	1.65	99.00
Wash-out				Each	2.00	200.00
Drained Used Oil Filters				Drum		
Non-RCRA Hazardous Waste Solids (oily debris)	CA 223			Drum		
Empty Drums				Drum		
Transportation			8.25	Hrs.	130.00	130.00
Other: Time of Service			5.25		100.00	525.00
Other:						
Other:						
Other:						
Other:						
Other:						
Other:						
Other:						
TEST	PASS <input type="checkbox"/>	FAIL <input type="checkbox"/>	PPM	Yard		

- ☐ Collection Station
☐ Government Source
☐ Marine Source

- ☐ Agricultural Source
☐ Industrial Source

TOTAL CHARGES 3298.60

Accounting Office 949-757-7770

"YOU WILL ALSO RECEIVE A COMPUTER
 GENERATED INVOICE AND/OR
 STATEMENT FROM OUR ACCOUNTING OFFICE.
 PAYMENT AT TIME OF SERVICE WILL
 ALSO BE NOTED ON INVOICE".

TSD: Evergreen Oil, Inc.
 8880 Smith Avenue
 Newark, CA 94560
 EPA# CAD980887418

I hereby certify that all information in this and all attached documents
 contains true and accurate descriptions of the waste. All relevant information regard-
 ing known or suspected hazards associated with the waste has been disclosed.
 I also acknowledge that I have read and agree to the terms on the reverse side
 of this form.
 Pursuant to Title 22, Section 66264.12, Evergreen Oil, Inc., Evergreen
 Environmental Services, has the appropriate permits for and will accept
 the waste manifested to Evergreen facilities so long as it meets the
 approved acceptance criteria.

Tom P 2207 DRIVER ROUTE # DRIVER SIGNATURE

Karen B. Ruffin GENERATOR'S SIGNATURE PRINT NAME